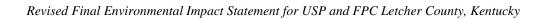
APPENDIX G ENVIRONMENTAL SITE ASSESSMENTS



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G-2



Phase I Environmental Site Assessment for Proposed United States Penitentiary and Federal Prison Camp

Payne Gap, Letcher County, Kentucky

Prepared by:



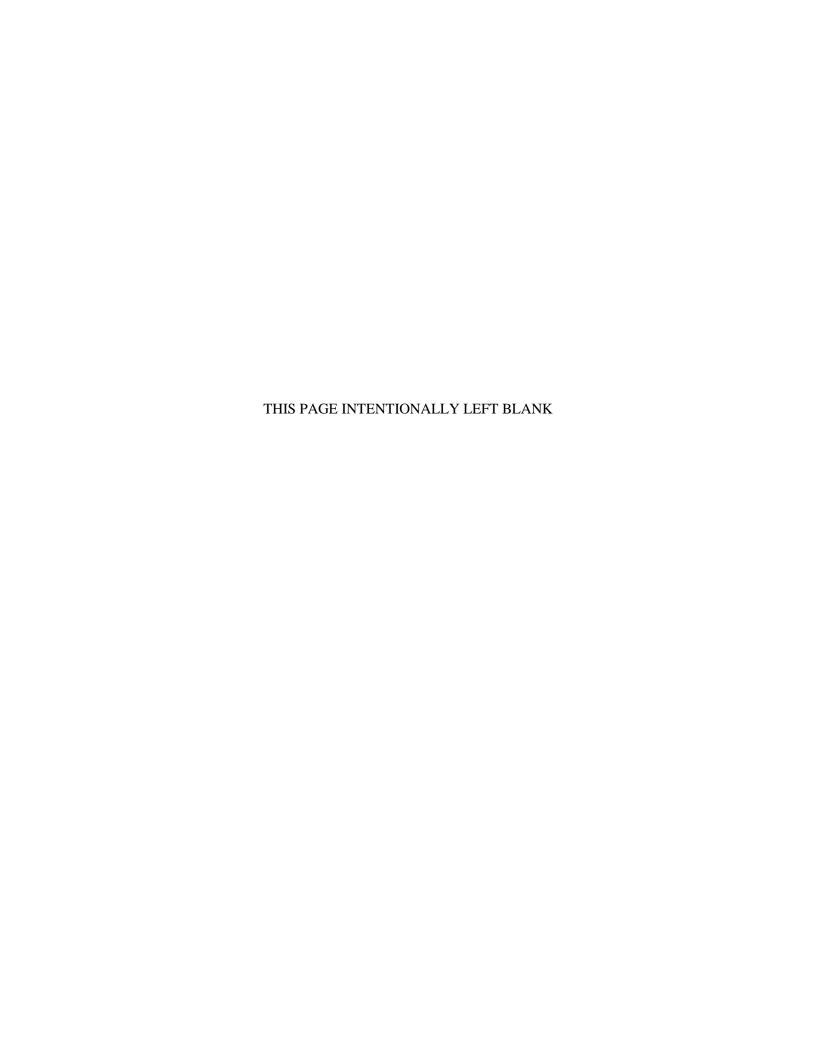
October 2015

United States Department of Justice

Federal Bureau of Prisons

320 First Street, NW

Washington, DC 20534



SUMMARY

Cardno was retained by the Federal Bureau of Prisons to conduct a Phase I Environmental Site Assessment (ESA) to identify recognized environmental conditions (RECs) at a 753-acre property, herein referred to as the subject property, located in eastern Letcher County, Kentucky. The subject property, which composed of multiple parcels under private ownership, is being considered for purchase by the Federal Bureau of Prisons for the construction of a new federal correctional facility.

This ESA meets or exceeds the requirements of the American Society for Materials and Testing (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-13. This document follows the recommended structure for an ESA provided in ASTM E 1527-13. This report was prepared pursuant to an inquiry into the prior ownership and uses of the subject property, consistent with good commercial and customary practice.

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A REC can include hazardous substances or petroleum products even under conditions in compliance with laws. *De minimis* conditions are not recognized environmental conditions and are defined as conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs to exist in connection with a property. This ESA has been prepared to reduce, but not eliminate, uncertainty regarding the existence of RECs in connection with the property, recognizing the limits of cost and time. This assessment has revealed no evidence of RECs in connection with the subject property except for an open plastic storage tank with stained soil located at the oil pumping station near the northeast portion of the property.



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Appendix C: Radius Map

Appendix D: Topographic Maps

Appendix E: Aerial Photographs

Appendix F: City Directories

Appendix G: User Questionnaire

Appendix H: Qualifications

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1 INTRODUCTION

1.1 Purpose

Cardno was retained by the Federal Bureau of Prisons to conduct a Phase I Environmental Site Assessment (ESA) to identify recognized environmental conditions (RECs) at a 753-acre property located in Letcher County, Kentucky, approximately 7 miles northeast of Whitesburg. The subject property is situated along the Kentucky and Virginia border and south of the North Fork Kentucky River just west of its confluence with Kings Creek, and south of U.S. Route 119 (Figure 1 in Appendix A).

Cardno conducted this ESA in accordance with the ASTM International Designation: E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13). This standard defines good and customary practice for conducting an ESA of a parcel of real estate with respect to petroleum products and the range of contaminants regulated under the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The ASTM standard is intended to permit a user to satisfy one of the requirements to qualify for the "innocent landowner" defense to CERCLA liability. However, it should be noted that the property subject to this ESA is composed of multiple, privately-owned parcels of land.

This document follows the recommended structure for an ESA provided in ASTM E1527-13.

The goal of this Phase I ESA is to identify RECs on the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A REC includes hazardous substances or petroleum products even under conditions in compliance with laws. *De minimis* conditions are not recognized environmental conditions, generally do not present a threat to human health or the environment, and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Structures on the subject property were also assessed for the potential presence of suspect asbestos-containing material, lead-based paint, and radon although no samples were collected during the Phase I ESA.

This Phase I ESA report documents the environmental conditions of the subject property as observed on July 22 and 23, 2015. The results of this assessment are limited to a visual site reconnaissance, a state and federal regulatory database review, and interviews with individuals familiar with the subject property. No samples were collected of any environmental media (soil, water, asbestos, etc.) during this study. Information pertaining to environmental issues was gathered through site observations, interviews, and available documentation, as appropriate. A series of photographs taken at the subject property is included in the Photographic Record (Appendix B).

1.2 Detailed Scope of Services

This report was prepared in response to the request by the Federal Bureau of Prisons to conduct an ESA in accordance with ASTM E1527-13.

The scope of services for this ESA included the following:

• Phase I ESA in accordance with the standards of the ASTM as set forth in Practice E 1527-13.

- Title search or assessor records review back to the first developed use or to 1940, whichever is earlier.
- Visual site inspection of the subject property and surrounding area to evaluate present conditions.
- Evaluation of the historical use of the subject property, by reviewing aerial photographs and historic topographic maps reasonably available from public sources and Sanborn maps.
- Review of records reasonably available from appropriate federal, state, and local regulatory agencies for documented soil and/or groundwater contamination investigations conducted at the subject property and vicinity, as defined in the ASTM standard.
- Review of the compliance history of the subject property, and of any adjacent sites, as identified by the regulatory database review.
- Interviews with individuals familiar with the subject property and surrounding areas.
- Review of the proposed site plan.
- Presentation of the aforementioned services in this report.

1.3 Significant Assumptions

The research, site reconnaissance, and interviews conducted in support of this ESA are based upon assumptions intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or environmental professional in performing an ESA or in judging whether a user or environmental professional has conducted appropriate inquiry or has otherwise conducted an adequate ESA. These assumptions are as follows:

- Records reviewed are assumed to be complete as provided by the source of the record (government agencies or commercial services) and current as of the date of review. Government information obtained from non-governmental agencies is considered current if the source updates the information at least every 90 days or, for information that is updated less frequently than quarterly by the governmental agency, within 90 days of the date the government agency makes the information available to the public.
- It is assumed that person(s) interviewed in connection with this ESA have answered all questions posed by the person(s) conducting the interview, in good faith, to the extent of their actual knowledge.
- No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. This ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and within reasonable limits of time and cost. All appropriate inquiry does not mean an exhaustive assessment of a clean property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions.
- Not every property will warrant the same level of assessment. Consistent with good commercial or customary practice, the level of assessment was guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry. It is assumed that ESAs must be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made. Subsequent ESAs should not be considered valid standards to judge the appropriateness of any prior

assessment based on hindsight, new information, use of developing technology or analytical techniques, or other factors.

1.4 Limitations and Exceptions

In preparing this report, Cardno has relied on information derived from secondary sources, computer databases, and personal interviews. Except as detailed in the report, Cardno has not attempted to verify the accuracy and completeness of the information derived from the secondary sources cited in the report. Cardno makes no claims, warranties, or guarantees as to the accuracy of the information contained within the studies, reports, and data reviews that Cardno did not complete for this assessment. Cardno therefore offers this report based on the assumption that such information is accurate and complete.

The findings, observations, and conclusions set forth in this report are limited by the client (also referred to as "user") and/or contract technical specifications and the methods employed in meeting these specifications. The services requested by the client have been performed in accordance with currently accepted industry standards for the conduct of ESAs. In order to perform a comprehensive environmental evaluation, subsurface investigation and testing would be required in order to definitively determine whether contamination has affected the subject property.

This ESA is site-specific in that it relates to assessment of environmental conditions on a specific parcel of commercial real estate. Consequently, this practice does not address many additional issues raised in transactions such as purchases of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other off-site environmental liabilities.

1.5 Special Terms and Conditions

No special terms and conditions associated with the preparation of this report were identified.

1.6 User Reliance

This report was prepared solely for the use of the Federal Bureau of Prisons, and is not intended for use by third parties. Unauthorized third parties shall indemnify and hold Cardno harmless against any liability for any loss arising out of, or related to, reliance by any third party on any work performed hereunder, or the contents of this report.

2 SITE DESCRIPTION

The following text provides a legal description of the subject property, its location, and the general characteristics of the property and surrounding area.

2.1 Location and Legal Description

The subject property consists of approximately 753 acres of land encompassing 10 parcels with nine separate land owners identified by the Assessor Parcel Numbers (APN) listed in Table 1. The subject property is located in Payne Gap, Kentucky. The location and boundary of the subject property is illustrated in figures contained in Appendix A.

APN Owner 051-00-00-105.00 Mrs. John C. Craft 051-00-00-108.01 David and Judy Wayne 052-00-00-017.00 Walter Kincer 052-00-00-024.00 James Bullion James Bullion 052-00-00-023.00 052-00-00-021.00 Donna Bullion 052-00-00-025.00 Louella Hitchcock Wilise Page 052-00-00-022.00 051-00-00-108.00 Elijah Johnson 052-00-00-042.01 Elkhorn Stone

Table 1. Parcel Identification and Property Owners

2.2 Site and Vicinity General Characteristics

The subject property is located approximately 7 miles east of Whitesburg, Kentucky. It is south of U.S. Route 119, east of Bottom Fork Road (KY 3406), and west of Talman Drive (Dark Hollow). The area was previously deep mined; however, mining activities no longer occur at the subject property. Land use surrounding the subject property is also primarily forested, with small single-family residences adjacent to the subject property. There are no zoning ordinances or land use classifications identified for this area (DePriest 2013).

2.3 Current Use of the Property

Land use associated with the subject property consists primarily of forested areas. The subject property is adjacent to the Jefferson National Forest. A few residences are located on the perimeter of the subject property. Recreational activities such as off-roading with all-terrain vehicles and hunting occur on the subject property.

2.4 Description of Structures, Roads and other Improvements on the Subject Property

Fork Drive and Talman Drive both provide access to the subject property. U.S. Route 119 is designated as a rural principal arterial by the Kentucky Transportation Cabinet (2014). Several unnamed, unimproved roads and trails are found on the subject property and may be remnants of mining access roads.

Two residences are located on the subject property near the center of its western border.

2.5 Current Uses of Adjoining Properties

Surrounding land uses are predominantly residential to the north, east, and west of the subject property. To the south, the subject property abuts the Virginia border, beyond which is a continuation of the Jefferson National Forest.

2.6 Physical Setting

The following sections describe the environmental setting of the subject property and include information on climate, topography, geology, soils, surface water, and groundwater.

2.6.1 Climate

The subject property is located in the Eastern Kentucky Coal Field Region. This region experiences mild spring and autumn weather, but temperatures rise to 90 degrees Fahrenheit (°F) an average of 20 days per year (Arnold 2015). The Kentucky climate is characterized by warm summers, with average high temperatures in the mid-80s, and cool winters, with average low temperatures in the high-30s to mid-40s.

Kentucky experiences average annual precipitation ranging from over 40 inches in far northern Kentucky to more than 50 inches in south central Kentucky. Precipitation tends to be well distributed throughout the year, though the fall is typically a bit drier than other seasons. Weather producing extremes of precipitation can develop quickly or persist for extended periods. Flash floods, usually resulting from intense but short lived thunderstorms or from storms training over an area, occur throughout Kentucky, but are a particular concern in the rugged terrain of eastern Kentucky, which is characterized by steep slopes and narrow valleys. Drought occurs periodically in Kentucky. When it does, it is often accompanied by oppressive heat (Foster no date [n.d.]).

2.6.2 Topography

The topography on the subject property is typified by the mountains valleys complex associated with western Appalachian Mountains. The topography at Payne Gap has been significantly affected by strip mining activities, which historically occurred on the subject property and ceased in the early 1990's. According to the United States Geological Survey (USGS) 7.5 minute Jenkins West topographic quadrangle map, the elevation on subject property ranges from a low of 1,385 feet above mean sea level (AMSL) in the northwest corner of the subject property adjacent to the North Fork of the Kentucky River and a high of 2,965 feet AMSL on Pine Mountain in the southern portion of the subject property (University of Kentucky 2013). The majority of slopes on subject property are very steep, well over 15 percent.

2.6.3 Geology

The subject property is underlain by the Breathitt Group, which is composed of the Pikeville Formation and the Hyden Formation. The geology underlying the subject property is primarily Pikeville Formation, which is composed of numerous coal zones, shale members, and limestones (Kentucky Geological Survey, University of Kentucky 2015).

The area of interest within the project limits has been mined through a combination of pre-law contour mining and room and pillar deep mining from 1950 through 1990. An extensive search of Kentucky mining databases revealed that the coal seams of importance in the area of the subject property consist of the following (in descending order): Upper and Lower Amburgy seams (approximate elevation 1,810 feet), and Upper Elkhorn Number 3 (approximate elevation 1,640 feet). Some of the crop coal of the Elkhorn 3 seam was removed by "pre-law" contour strip mining prior to 1950. Between 1950 and 1960, the majority of the crop coal was removed by the room and pillar method of deep mining. The remaining on-site crop coal of the Elkhorn 3 was removed by contour strip mining; this occurred through 1990.

Extensive mine spoil in varying depths was put back on the abandoned contour strip benches during mine reclamation. These benches are now heavily forested (Letcher County Planning Commission 2009).

2.6.4 Soils

The soils underlying the subject property are varied as a result of topography and mining disturbance, but none of the soils are listed as hydric by the Natural Resources Conservation Service (NRCS). The three most common soils at the subject property are composed of the Cloverlick-Kimper-Highsplint complex (30-65 percent slopes), the Dekalb-Gilpin-Raye complex (25-65 percent slopes), and the Kaymine, Fairpoint, and Fiveblock soil series (2-70 percent slopes). To a lesser degree, the following soils underlie the subject property: Caneyville-Renox-Bledsoe complex (50-80 percent slopes), Shelocta-Highsplint complex (30-65 percent slopes), and Urban land Udorthents complex (0-15 percent slopes) (NRCS 2015). These soils have not been designated by NRCS as prime farmland soils.

2.6.5 Surface Water

Although the National Wetlands Inventory mapping does not depict any wetlands on the subject property, approximately 2.84 acres (1.15 hectares) of wetlands have been delineated on the subject property (TEC Inc. 2011; Cardno 2014). Wetlands are located throughout the site and are generally associated with surface drainage features, depressions and areas of ponding.

Several intermittent, perennial, and ephemeral streams were delineated on subject property (TEC Inc. 2011; Cardno 2014). The North Fork Kentucky River is located just north of the subject property, Laurel Fork is located to the west of the subject property, and Cook Hollow/Holbrook Brook is located to the east of the subject property.

The subject property is depicted on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map Panel 21133C00140C. According to the map, the subject property is not located in a 100-year floodplain (FEMA 2008).

2.6.6 Groundwater

Two domestic single household drinking water wells are located near the northern boundary of the subject property. Well ID 00057785 is approximately 560 feet east of Fork Drive and is reported to be 100 feet deep. Well ID 00045519 is located approximately 530 feet southeast of Fork Drive and is reported to be 160 feet deep (Kentucky Geological Survey, University of Kentucky 2015). Groundwater flow tends to follow the sloped topography and is assumed to flow to the north, east, and west towards the North Fork Kentucky River, Cook Hollow, and Laurel Fork, respectively. Variations in groundwater conditions are expected based on location and elevation across the subject property, seasonal conditions, and weather patterns. The subject property is underlain by the Breathitt Group, which is comprised of the Pikeville Formation and the Hyden Formation. The Breathitt Group yields more than 500 gallons per day in more than three-quarters of the wells drilled in valley bottoms, more than 500 gallons per day in about three-quarters of the wells on hillsides, and more than 100 gallons per day to nearly all wells on ridges within Letcher County (Kentucky Geological Survey, University of Kentucky 2015). There are no sole source aquifers underlying the subject property (United States Environmental Protection Agency [USEPA] 2013).

The quality of the groundwater in Letcher County ranges from moderately hard in most of the county to moderately soft south of Pine Mountain. Naturally occurring contaminants present in the groundwater

consist of sulfate, salt (sodium chloride), iron, and manganese (Kentucky Geological Survey, University of Kentucky 2015).

According to the Kentucky Division of Water, Groundwater Branch, Letcher County has areas of moderate and high sensitivity to groundwater pollution. The hydrogeologic sensitivity reflects the ease and speed with which a contaminant can move into and within a groundwater system. The hydrogeologic sensitivity of Letcher County has been assigned a value of three out of five, with five being the most susceptible to groundwater pollution and one being the least susceptible. The region is given a three due to the observation that subcutaneous drains and enlarged fractures influence groundwater recharge, fissure networks influence flow, and bidirectional dispersal patters influence overall dispersion (Kentucky Department of Environmental Protection 1994).

3 USER PROVIDED INFORMATION

3.1 Environmental Liens or Activity and Use Limitations

No information on environmental liens or activity and use limitations were provided by the user.

3.2 Specialized Knowledge

No specialized knowledge about the subject property was provided by the user.

3.3 Valuation Reduction for Environmental Issues

No information on valuation reduction for environmental issues was provided by the user.

3.4 Owner, Manager, Occupant Information

The subject property is currently comprised of ten separate parcels with nine property owners. Current property owners are listed in Table 3-1.

4 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the property. Reasonably ascertainable information from standard environmental and historical record sources is reviewed for the subject and surrounding properties. The objective of consulting historical sources is to develop a history of the previous uses of the property and the surrounding area, in order to help identify the likelihood of past uses having led to RECs in connection with the property. Some standard historical sources may be excluded if the sources are not reasonably ascertainable, or if past experience indicates that the sources may not be sufficiently useful, accurate, or complete in terms of satisfying the objectives.

4.1 Title Records

Title records for the subject property were reviewed at the Whitesburg Courthouse on July 24, 2015 and are summarized in Table 2. Title records were reviewed back to the first developed use or to 1940, whichever is earlier.

Table 2. Deed History of Subject Property Parcels

APN	Owner	Deed	Date Purchased
AIN	(Current owner shown in bold)	Book/Page	Date I ul chased
051-00-00-105.00	Mrs. John C. Craft	330/635	November 16, 1994
031-00-00-103.00	Donald Lee and Mary Rutherford	330/635	September 7, 1989
	Reed Wright	330/033	September 7, 1969
	Allie Isom Presnell	291/410	September 7, 1989
	G.W. Holbrook	86/161	October 14, 1935
051-00-00-108.01	<u> </u>	368/246	
051-00-00-108.01	David and Judy Wayne		October 15, 2003
	Danny Lee and Joyce Mae Mullins Samuel and Janice Johnson	309/488	September 23, 1992 November 7 1986
		280/675	
0.50 00 00 045 00	Joyce Mullins	289/296	December 10, 1984
052-00-00-017.00	Walter Kincer	379/234	April 19, 2005
	Marie Reed	367/276	January 22, 2003
	James Reed and Betty Ables	341/174	December 15, 1998
	Emmett and Victoria Kincer	191/362	December 17, 1970
	Alice Vanover	424/362	August 9, 1965
	Ira Craft	No data	September 8, 1921
052-00-00-024.00	James Bullion	399/295	October 30, 2008
	Isaac Craft	391/658	September 7, 2008
	Milburn and Francis Craft	188/373	April 7, 1970
	Reuben and Norma Craft, Judy	62/450	December 21, 1921
	Bullion Craft and Blaine Bullion		
	Northern Coal and Coke Company	38/304	December 10, 1920
052-00-00-023.00	James Bullion	389/518	May 21, 2007
	Norma Lee Craft	366/695	November 16, 2001
	Dale and Stephanie Craft, Donald and	188/374	April 7, 1970
	Cora Craft, and William and Linda		
	Sue Williams		
	Norma Lee and Reuben Craft	188/374	April 7,1970
	Milburn and Francis Craft, Judy Craft	62/450	December 15, 1971
	Bullion and Blaine Bullion		
	Northern Coal and Coke Company	38/304	December 10, 1920
052-00-00-021.00	Donna Bullion	354/665	June 14, 2001
	Thelma Bullion	295/375	July 14, 1990
	Virgil Bullion	185/166	March 31, 1969
	Nagatha Venter and Alberta and Jesse	173/293	April 23, 1966
	Elkins		
	Laura Brown and John Henry Bentley	173/293	April 23, 1966
	Nagatha and Alberta Elkins	149/599	May 27, 1957
	Isaac Brown	70/160	January 14, 1927
052-00-00-025.00	Louella Hitchcock	392/193	September 24, 2007
	Julia Bullion	133/272	December 31, 1949
	Marion and Huldy Craft	62/450	December 15, 1921
	Northern Coal and Coke Company	38/304	December 10, 1920
052-00-00-022.00	Wilise Page	376/659	March 10, 2005
UD UU UDD UU	Leona Page	376/656	February 11, 1958
	Sillar Craft	66/510	September 23, 1924
	Sina Ciait	00/210	50ptcmoci 23, 1324

Table 2. Deed History of Subject Property Parcels

APN	Owner	Deed	Date Purchased
	(Current owner shown in bold)	Book/Page	
051-00-00-108.00	Elijah Johnson et al.	314/418	September 1992
	William and Della Johnson	129/43	December 23, 1948
	Nannie Isom Craft	59/227	February 9, 1920
052-00-00-042.01	Elkhorn Stone	402/655	July 15, 2009
	Pine Mountain Stone	354/436	January 1, 2001
	Clarence Moore and Sam Webb	169/249	Jun 18, 1964
	W Melvin and Jean Adams	156/268	June 19, 1959
	Elkhorn Coal Company	154/519	December 12, 1958
	Commonwealth of Kentucky	151/262	October 8, 1957

A review of the Kentucky Coal Mine Map Viewer and Information System as well as the Kentucky Surface Mining Viewer provided information regarding mining permit holders for the subject property. Mining permit holders are summarized in Table 3.

Table 3. Mining Permit Holders of Subject Property

C4-4- E3-/D24			
State File/Permit			
Number	Permittee	Year	
92407 A through H	Myrtle Coal Co., Elkhorn Coal Co., Little Jake Coal Co.,	1950	
	Addington Coal Co., KY River Coal Co., Bentley & White Coal		
	Co., Dotson Coal Co., Johnson Coal Co., Lester Cook Coal Co.,		
	Siler & Bates Coal Co.		
02141/01004	Don Smith Coal Co., Edna Coal Co., Clean Coal Co.	1955	
20703/00444	Anchor Coal Co.	1956	
01574	Don Smith Coal Co., Johnson Coal Co., Edna Coal Co., Lester	1956	
	Cook Coal Co., Siler & Bates Coal Co., K. Dan Coal Co.		
04397-A	Don Smith Coal Co., Laurel Branch Coal Co., Johnson Coal Co.,	1956	
	Lester Cook Coal Co., Adair Coal Co., Siler & Bates Coal Co.,		
05323	W.H. Coal Co., Myrtle Coal Co., KY River Coal Co., Lester	1957	
	Cook Coal Co., Clean Coal Co., Don Smith Coal Co., Johnson		
	Coal Co.		
04397	Elkhorn Coal Co.	1959	
02703	Harlow Coal Co.	1960	
17775-2	Freeman Fuels of Kentucky Inc.	1990	

4.2 Standard Environmental Record Sources

Documents reviewed for the preparation of this report included the search results of federal and Commonwealth of Kentucky environmental records databases, USGS 7.5 minute quadrangle historical topographic maps, historical aerial photographs, and Sanborn fire insurance maps.

Environmental Data Resources, Inc. (EDR) was contracted to prepare a GeoCheckTM Report to identify potential sources of contamination at the subject and adjacent properties (EDR 2015a). The GeoCheckTM Report was derived from the search of federal and Commonwealth of Kentucky environmental database

records for the subject and adjacent properties. The report was prepared to meet, at a minimum, the government records search requirements of ASTM E1527-13. EDR also provided the USGS 7.5 minute quadrangle historical topographic maps, historical aerial photographs, and Sanborn maps.

Table 4 lists the ASTM-required search databases, the distance searched per database, and the associated results. Due to the size of the parcel being investigated, minimum search distances were extended one-quarter mile to ensure complete coverage for the multi-parcel subject property. Extension of the search radius resulted in the need to include some Commonwealth of Virginia databases in the search. Appendix C contains the GeoCheckTM Report, including the list of searched databases (ASTM-required as well as supplemental databases), database descriptions and results, dates when updates were made, specified search distances, and maps.

Only one of the numerous databases searched, the KY SPILLS database, contained information relevant to the subject property. The KY SPILLS database is a listing of spill and/or release related incidents. One incident, recorded in 2006, documents the reporting of fugitive emissions of dust from coal truck traffic in an area off of U.S. Route 119 halfway between Jenkins and Whitesburg in Bill Lewis Hollow. Based on the nature and location of the reported release, to the east of the subject property, the incident it is not considered to pose a threat of contaminating the subject property.

Table 4. Federal, Kentucky, and Virginia Records – EDR Report ASTM Standard Radius Search

Database Search Radius Number of Sites			
	(miles)	Identified	
Federal		<u>'</u>	
NPL	1.25	0	
Proposed NPL	1.25	0	
Delisted NPL	1.25	0	
NPL liens	0.25	0	
CERCLIS	0.75	0	
CERCLIS-NFRAP	0.75	0	
FEDERAL FACILITY	0.75	0	
CORRACTS	1.25	0	
RCRA-TSDF	0.75	0	
RCRA-LQG	0.5	0	
RCRA-SQG	0.5	0	
RCRA-CESQG	0.5	0	
ERNS	0.25	0	
KENTUCKY			
KY&VA SHWS	1.25	0	
KY&VA SWF/LF	0.75	0	
KY SB139	0.75	0	
KY PSTEAF	0.75	0	
INDIAN LUST	0.75	0	
KY UST	0.5	0	
INDIAN UST	0.5	0	
FEMA UST	0.5	0	
KY&VA ENG CONTROLS	0.5	0	
KY&VA INST CONTROLS	0.75	0	
KY&VA VCP	0.75	0	
INDIAN VCP	0.75	0	
KY&VA BROWNFIELDS	0.75	0	

Table 4. Federal, Kentucky, and Virginia Records – EDR Report ASTM Standard Radius Search

Database	Search Radius (miles)	Number of Sites Identified
US BROWNFIELDS	0.75	0
DEBRIS REGION 9	0.75	0
ODI	0.75	0
KY HIST LF	0.75	0
KY SWRCY	0.75	0
INDIAN ODI	0.75	0
US CDL	0.25	0
KY CDL	0.25	0
US HIST CDL	0.25	0
HMIRS	0.25	0
KY&VA SPILLS	0.25	1

Source: EDR 2015a.

Note: See Appendix C for a complete report, including explanation and description of

acronyms.

4.3 Additional Environmental Record Sources

A list of the additional records sources reviewed/searched during the preparation of this Phase I ESA is provided in the EDR Radius Map report contained in Appendix C. Only one additional database, the Mines Master Index File (US MINES), contained information regarding the subject property. The US MINES database contains mine identification numbers issued for mines active or opened since 1971. The data also includes violation information. According to the database, 8 mines are located on or within a half-mile of the subject property.

4.3.1 Building Permit Records

The complete collection of building permit data available to EDR was searched, and as of June 16, 2015, EDR did not have access to building permits for the municipality in which the subject property is located.

4.3.2 Tax Map

EDR performed a search of available property tax maps for the subject property and identified no tax map coverage for the area including the subject property.

4.4 Historical Use Information of Subject Property and Adjoining Properties

4.4.1 Historical Topographic Maps

Historical USGS topographic maps are useful for identifying historical land uses in an area, including road networks, development, and agricultural uses and other land use designations. The results of the review of USGS data from historical topographic maps for the years available are presented in Table 5. Copies of the referenced maps are contained in Appendix D.

Table 5. Historical Topographic Maps Reviewed

USGS 7.5'		
Quadrangle	Date	Details Observed
	1914	The 1914 topographic map depicts the subject property as being largely undeveloped. Structures located on or near the property are located along existing streams and surface waters of Laurel Fork, Kentucky River, and Holbrook Brook. Route 119 to the north is depicted as a light duty road.
Jenkins West	1954	Several more structures are depicted on the subject property and unimproved roads are depicted entering the subject property from its western border along Laurel Fork and its eastern border along Holbrook Brook, which is now labeled Cook Hollow. The area is labeled "Strip Mines" and several tunnel or cave entrances are depicted on the subject property. Route 119 to the north has been improved to a secondary highway.
	1979	The 1979 topographic map looks the same as the 1954 map except the subject property now contains multiple areas of mine tailing deposition throughout the subject property that coincide with the subject property topography.
	1992	The 1992 topographic map looks similar to the 1979 map except that the mine tailing areas are no longer depicted and several coinciding areas are no longer depicted as being forested. Route 119 to the north has been improved to a highway.

Source: EDR 2015b.

4.4.2 Historical Aerial Photos

Photographs taken from an aerial platform with sufficient resolution to allow for the identification of development and activities occurring on the subject property and adjoining properties were obtained from EDR and reviewed. The results of the review of the historical aerial photographs for the years available are presented in Table 6. Multiple aerial photos were reviewed for the years 2010, 2011, and 2012 in order to provide complete coverage of the subject property. Copies of these aerial photographs are contained in Appendix E.

Table 6. Historical Aerial Photos Reviewed

Date	Details Observed		
	The northern half of the subject property is being actively mined and access roads and		
1952	several areas of disturbance are visible. Disturbed areas appear to coincide with topography.		
	The southern half of the subject property is undisturbed and forested.		
	The 1961 photo is similar to the 1952 photo; however, mining activity appears to have		
1961	diminished. Disturbed areas in the northern half of the subject property appear smaller in		
1901	size and are less apparent. The southern half of the subject property is not depicted in the		
	1961 photos.		
	The 1975 photo is similar to the 1961 photo; however, mining activity appears to have		
1975	diminished even further. Disturbed areas in the northern half of the subject property appear		
1973	even smaller in size and are less apparent. The southern half of the subject property is		
	undisturbed and forested.		
1979	The 1979 photo looks the same as the 1975 photo.		
	Mining activity appears to have increased in the northeastern portion of the subject property		
1988	in the 1988 aerials photos and new areas of disturbance are apparent. Fork Road is also		
1900	visible at the subject property's northern boundary. The southern half of the subject		
	property is undisturbed and forested.		

Date Details Observed Mining activity in the northeast portion of the subject property is greatly expanded and large areas appear to have been cleared. The northwestern portion of the subject property appears 1995 to be recovering and areas of disturbance are becoming less apparent. The southern half of the subject property is undisturbed and forested. The 2000 photo is similar to the 1995 photo; however, mining activity appears to have diminished. Disturbed areas in the northeastern portion of the subject property appear 2000 smaller in size and are less apparent. A vehicle staging area can be seen at the northeast corner of the subject property. The southern half of the subject property is undisturbed and In the 2005 photo, nearly all of the formerly mined areas have been vegetated with only one small area of disturbance being visible near the eastern boundary of the subject property. 2005 Mining activity appears to have moved to the eastern adjacent area. A residence appears to be located near the western boundary of the subject property. The southern half of the

In the 2008 photo, nearly all of the formerly mined areas have been vegetated and are becoming increasingly forested. Only two small areas of disturbance are on the subject

continue to be disturbed and appear to contain unimproved roads

The 2011 photos appear the same as the 2010 photo.

The 2012 photos appear the same as the 2011 photo.

property. Mining activity to the east also appears to have diminished with disturbed areas becoming revegetated. The southern half of the subject property is undisturbed and forested. The 2009 photo appears the same as the 2008 photo. The two small areas of disturbance

In the 2010 photos, a road traversing the subject property appears to have been widened and

improved. The remainder of the subject property appears the same as in the 2009 photo.

subject property is undisturbed and forested.

Table 6. Historical Aerial Photos Reviewed

4.4.3 Sanborn Maps

Source: EDR 2015c.

2008

2009

2010

2011

2012

The complete holdings of the Sanborn Library, LLC collection were searched by EDR with regard to the subject property, and no fire insurance maps covering the subject property were found.

4.4.4 City Directories

A City Directory Report for the subject property was provided by EDR. City Directories are reviewed to evaluate the potential liability of the subject property resulting from past activities. The EDR City Directory Report includes a search of available city directory data at 5-year intervals. Cole Information Services Directories were searched for the years 1992, 1995, 1999, 2003, 2006, and 2013. The subject property and adjoining property addresses and property owners were not listed for any of the years searched. Several properties were listed on Highway 119 North for the years 1999, 2003, 2006, and 2013. Only one property, a commercial business, was identified near the subject property in the city directories. The 2006 and 2013 city directories list Kings Corner Rhino Linings was located at 7937 Highway 119 North, across the highway from the subject property. This property was also listed as Perfect Fit Truck and Car Accessories in the 2003 city directory (EDR 2015d). A copy of the city directory search results is contained in Appendix F.

5 SITE RECONNAISSANCE

The objective of the site reconnaissance is to obtain information indicating the likelihood of RECs in connection with the property that may not be obvious to the owner/occupants.

5.1 Methodology and Limiting Conditions

The Cardno staff visited the subject property on July 22 and July 23, 2015 and conducted site reconnaissance to identify visible evidence of potential environmental contamination. Specifically, the ESA team looked for evidence of previous contamination such as:

- stained surface soils or distressed vegetation;
- disturbed surface soils or reclaimed areas:
- discarded containers, residues, and pools of liquid;
- electrical equipment such as transformers and capacitors;
- aboveground storage tanks (ASTs), underground storage tanks (USTs), piping, sumps, or other types of impoundment structures;
- abandoned structures and associated utilities; and
- drainage structures and direction of stormwater runoff on the subject parcels and adjacent areas.

The survey involved visually inspecting the subject property and the adjoining properties to the extent that these properties were readily accessible during the time of the visual inspection. Cardno staff members inspected the subject property and conducted interviews with persons who were knowledgeable about the historical and current use of the subject property. A complete set of photographs from this inspection is provided in Appendix B and interview forms are provided in Appendix G. The photographs locations are depicted on Figure 2 in Appendix A.

5.2 General Site Setting

The subject property is located in a mountainous area of eastern Kentucky and was historically subject to coal mining activity that has resulted in large areas of tailing deposits and steep slopes across the subject property. The subject property is primarily forested, with isolated cleared areas and remnants of a warehouse type structure. A small oil extraction facility is also located on the subject property. The subject property abuts Jefferson National Forest at its southern boundary.

5.3 Exterior and Interior Observations

The subject property is largely undeveloped but contains remnant structures from historical mining activities. Along the eastern boundary of the subject property, an active oil extraction operation was observed on property owned by Elkhorn Stone, Incorporated. Placards on the oil extraction equipment indicated it was the property of EQT. The pumping station was secured within a chain link fence and no stained soils or other obvious sign of surface contamination were observed. It should be noted that heavy overnight rains had occurred prior to the site inspection resulting in wet soils that could obscure stains from view. To the north of the pumping station, two aboveground tanks, one plastic and one steel, were observed. Both tanks were within an unlined bermed area and were placarded as containing petroleum crude oil. The plastic container was observed to be open on top and an approximately 2-foot-long area of darkly stained soil was observed beneath it along its western edge. EQT was contacted regarding the tanks, but did not respond to inquiries. Additional rust stained areas were observed near the tank piping.

No obvious staining was observed beneath the steel tank. The open plastic tank with stained soil is considered to be a REC.

South of the oil pumping station are the remnants of a 75 foot by 35 foot warehouse type structure. The structure was of concrete block construction with a concrete slab-on-grade floor and steel roof trusses. The interior of the structure contained floor drains, and roof trusses were observed to be painted. Fires appear to have been lit inside the structure. Based on review of historic aerial photos the structure appears to have been constructed in the late 1990s.

Moving southwest through the heavily forested area, a natural gas transmission pipeline was observed. Further west was a large grassy clearing containing a hunting blind, field camera, and feeding station. A tractor was observed at the western extent of the clearing along with tiller and mower attachments, a mattress frame, and several empty containers. The tractor appeared to be in good condition and no leaks or stains were observed on or beneath it.

A sandy clearing was observed to the east of the grassy clearing. A portion of the clearing appeared to be heavily worn by off-road vehicles in a small track-like area. An oily sheen observed on some of the puddle surfaces within the track area is considered to be a *de minimis* condition. Numerous discarded tires were observed in this area as well as empty plastic bottles and other small amounts of household trash. To the west of the track area was a heavily eroded sandy area. The erosion had exposed buried PVC piping. The piping appeared to lead to an area of cinder blocks. Based on review of historic aerial photos, it appears that a manufactured building may have been located in this area when the subject property supported mining operations. The PVC piping is assumed to have conveyed water and possibly waste material to and from the building. A single, pole-mounted light was also observed in this area. No transformers were observed in the vicinity of the light.

To the south of the eroded area, a log road leads south up toward Indian Grave Gap. PVC piping was observed along the road side. Several hundred feet up the trail, the PVC piping was observed to be broken with water flowing out of it. At the terminus of the log road a large steel cistern with an interior plastic tank was observed. The cistern appeared to be placed in this location for the collection of spring water for conveyance downhill. It is assumed that this PVC pipeline was connected to the structure whose remnants were observed in the eroded area.

A dumping area was observed off of the access road from Bottom Fork-Laurel Fork Road. This dumping area contained an intact cathode ray tube television and construction debris. A second dumping area containing tires was observed along the access road that traverses the northern portion of the subject property. No visible evidence of releases (e.g., distressed vegetation, stained surface soils) was observed in the vicinity of the two dumping sites and no hazardous materials (i.e., paints, solvents pesticides) were observed among the discarded materials.

6 INTERVIEWS

The objective of the interviews is to obtain information indicating the likelihood of RECs in connection with the property. In the case of abandoned properties, where there is evidence of potential unauthorized uses of the abandoned property or evidence of uncontrolled access to the abandoned property, interviews with one or more owners or occupants of neighboring or nearby properties are conducted.

6.1 Owners

Cardno interviewed Mr. Elijah Johnson on July 24, 2015 with regard to the condition of the subject property. Mr. Johnson is a current landowner of a large area of the subject property. For the purposes of this Phase I ESA he is considered to be the major occupant of the subject property. Mr. Johnson had no knowledge of any land use restrictions, liens, chemical usage, or historic disposal activities on the subject property. All coal excavations were backfilled with overburden and all machinery used for mining was removed from the subject property. Mr. Johnson had no knowledge of any remediation activities being conducted on the subject property.

Cardno interviewed Mr. Link Lemaster of Mountain Enterprises (an affiliate of Elkhorn Stone) on September 28, 2015 with regard to the property. According the Mr. Lemaster, Elkhorn Stone only owns the mineral rights to the limestone on the subject property. Mr. Lemaster indicated that there was a residence on the subject property (Appendix B, Photos 20–25) at one time and that the PVC piping observed during site reconnaissance supplied water to the residence.

6.2 Officials

Cardno staff interviewed Mr. Elwood Cornett, Chairman of the Letcher County Planning Commission, on September 3, 2015 regarding the subject property. According to Mr. Cornett, the property was subject to surface mining and deep mining activity for the removal of coal ore. No processing of coal was conducted on the subject property. Coal ore was removed from the subject property and trucked elsewhere for processing. Mr. Cornett had no knowledge of any liens or use limitations associated with the site or of any hazardous materials being present, historically or currently, on the subject property.

6.3 Lessees

According to a Mine History report prepared as part of a site feasibility study, the last mining operation at Payne Gap occurred in the 1990s and was conducted by Freeman Fuels of Kentucky, Incorporated. Cardno attempted to contact Mr. Daniel V. Freemen, Director of Freeman Fuels, on September 28, 2015, but he was not available to answer questions (the person answering the call reported his unavailability was due to poor health).

Prior to the 1990s mining operations, the area was mined by several companies in the 1950s and 1960s. Similar attempts were made to contact personnel associated with those mining companies and were unsuccessful.

7 EVALUATION

7.1 Findings

The results of the visual site inspection, record search, and interviews pertaining to the subject property are discussed below. These findings reflect conditions identified at the subject property or considered to have the potential to affect the subject property and include, but are not limited to, RECs, Controlled RECs, Historical RECs and *de minimis* conditions as defined in ASTM E1527-13.

7.1.1 Storage Tanks and Pipelines

The open plastic storage tank located at the oil pumping station near the northeast portion of the subject property is considered to be a REC due to the fact that the open tank presents a material threat of release. The stained soil observed adjacent to the tank is also indicative of a release and considered a REC. The fact that the bermed area is unlined is an environmental concern. Although no leaks or stains were observed at the oil pump near the plastic tank, it is considered to be an environmental concern as it is a potential source of petroleum contamination.

7.1.2 Solid Waste

Several areas where dumping has occurred were observed on the subject property and are an environmental concern. Although no hazardous materials were observed, the refuse and debris should be removed from the subject property.

7.1.3 Septic Tanks and/or Leachfields

A residence was historically located on the subject property and was plumbed with PVC piping. This piping was observed to convey water to the former site of the residence. Additional piping was also observed that may be associated with an on-site septic system. Plastic piping observed to be buried in the vicinity of the residence is an environmental concern.

7.2 Opinion and Recommendations

Based on information collected during the preparation of this report, a Phase II Environmental Site Assessment should be performed on the subject property, prior to its acquisition, to confirm the absence/presence of hazardous materials or petroleum products. Specifically the Phase II ESA is recommended at the open plastic tank located at the oil pumping station. At a minimum, it is recommended that field screening of surficial soils be conducted to determine whether a release of petroleum has occurred. If field screening indicates the presence of petroleum in surficial soils, subsurface soil samples should be collected to determine the depth and extent of the release. Prior to sampling, the area should be assessed to determine the presence and effectiveness of any liners inside the bermed area. If groundwater is encountered, groundwater grab samples are recommended.

It is also recommended that all household trash, tires and debris be removed from the subject property and disposed of in accordance with applicable regulations.

7.3 Data Gaps

No information regarding the warehouse structure, its use, or potential contents was obtained and is considered a data gap. Information regarding this structure and its use would indicate whether the floor drains observed within it are potential sources of environmental contamination.

No information regarding the residential structure formerly located on the site was obtained and is considered a data gap. Information regarding the residence would indicate whether a leachfield is present on the subject property.

Limited information regarding the coal mining operations conducted at the site was available for review and no persons directly involved in coal mining activities at the site were available for interview. Therefore, the extent of coal mining operations cannot be ascertained and is considered a data gap. It is

unknown whether any coal processing was historically conducted at the subject property or how fuels, oils, lubricants, and machinery were stored, managed, or disposed of during mining operations.

7.4 Conclusions

Cardno has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of the subject property in Payne Gap, KY. Any exceptions to or deletions from this practice are described in Section 8.5 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the open plastic storage tank with stained soil located at the oil pumping station near the northeast portion of the subject property.

7.5 Limiting Conditions/Deviations

No substantial deviations from ASTM Practice E 1527-00 were involved with the preparation of this report. The subject property was characterized by steep slopes and thick undergrowth that limited access to many areas. All reasonable attempts were made to inspect the subject property to the fullest extent.

8 NON-SCOPE CONSIDERATIONS

8.1 Asbestos Containing Materials

No sampling for asbestos was conducted as part of this Phase I ESA. No potentially asbestos containing materials were observed during the site inspection.

8.2 Lead Based Paint

No sampling for lead based paint was conducted as part of this Phase I ESA. Based on review of historic aerial photographs, the warehouse structure observed on the subject property appears to have been constructed in the late 1990s and therefore is not likely to contain lead based paint.

8.3 Radon

Radon is a naturally occurring, colorless, odorless, radioactive gas produced by the decay of uranium in rock and soil. Radon is a known carcinogen, responsible for increasing the risk of lung cancer when inhaled. Electrically charged radon atoms can attach to indoor air dust particles. Subsequently these dust particles may be inhaled and adhere to the lining of the lungs. The deposited atoms decay by emitting radiation that has the potential to cause cellular damage. Typically outside air contains very low levels of radon (USEPA 2015), but tends to accumulate in enclosed indoor spaces. When present, radon gas would typically concentrate in relatively airtight buildings with little outside air exchange. The USEPA classifies Letcher County as having a moderate potential for radon intrusion (Zone 2). Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 picocuries per liter (pCi/L). The USEPA action level for radon is 4 pCi/L.

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10 CERTIFICATION

I declare, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) Part 312.

I have the specific qualifications based on education, training, and experience to assess the property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Erika A. Fuery

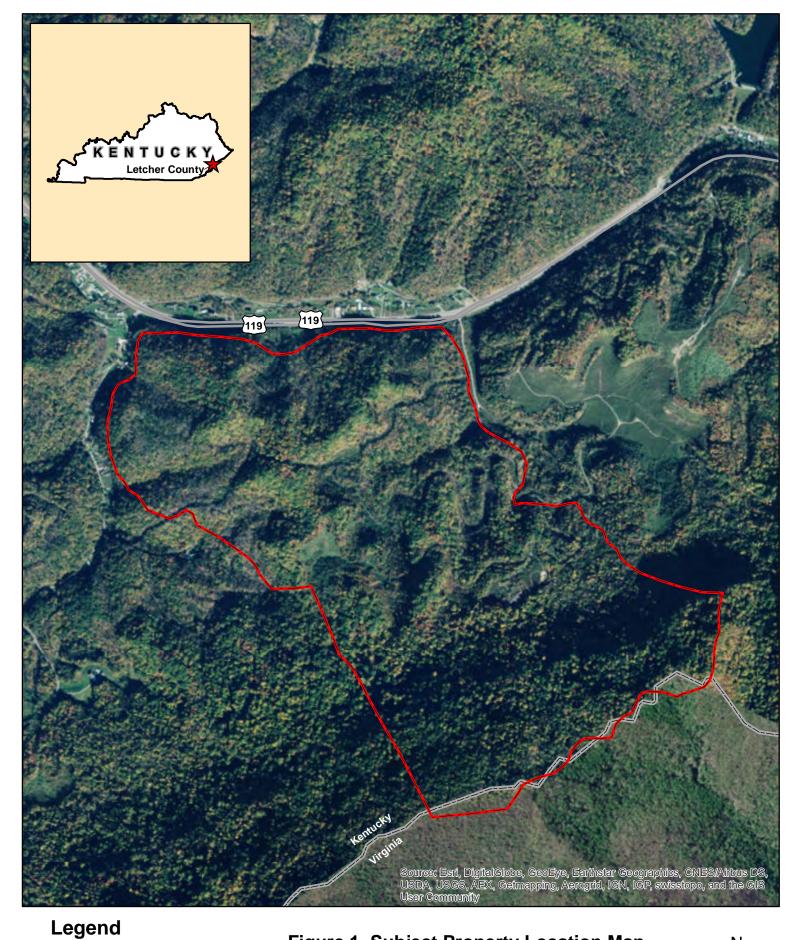
Environmental Scientist Cardno

October 8, 2015

Date

Appendix A: Figures

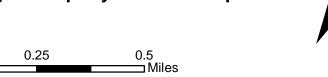
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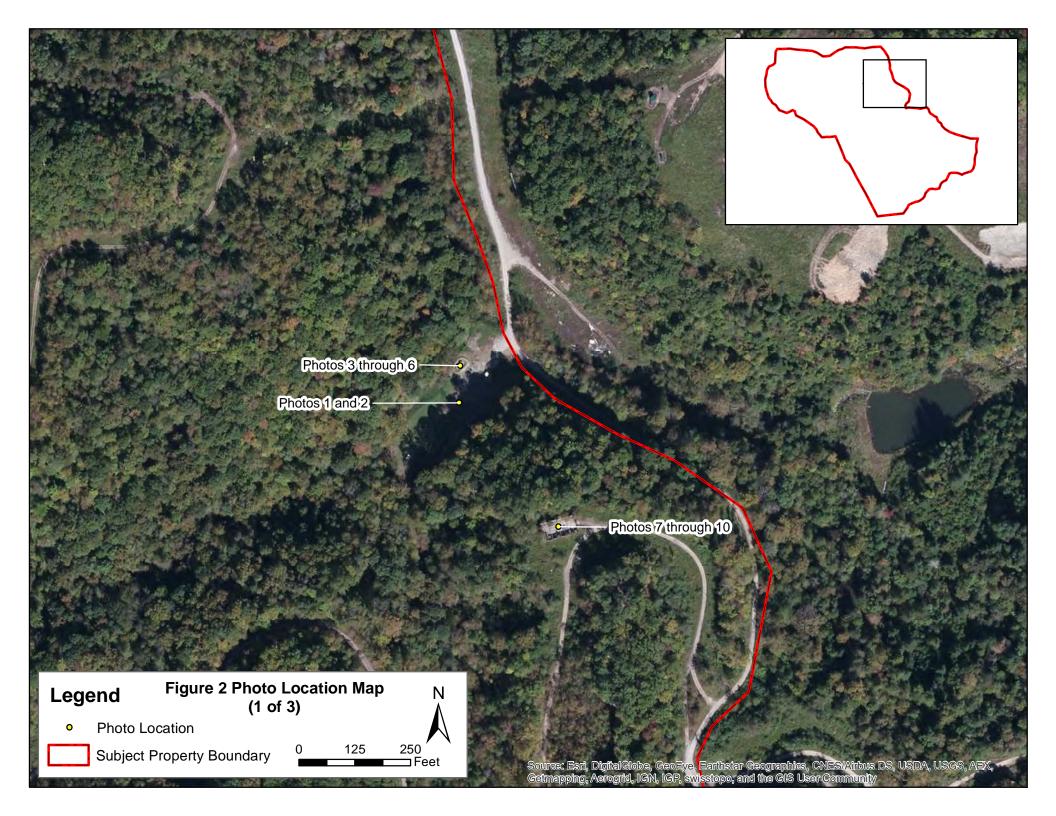


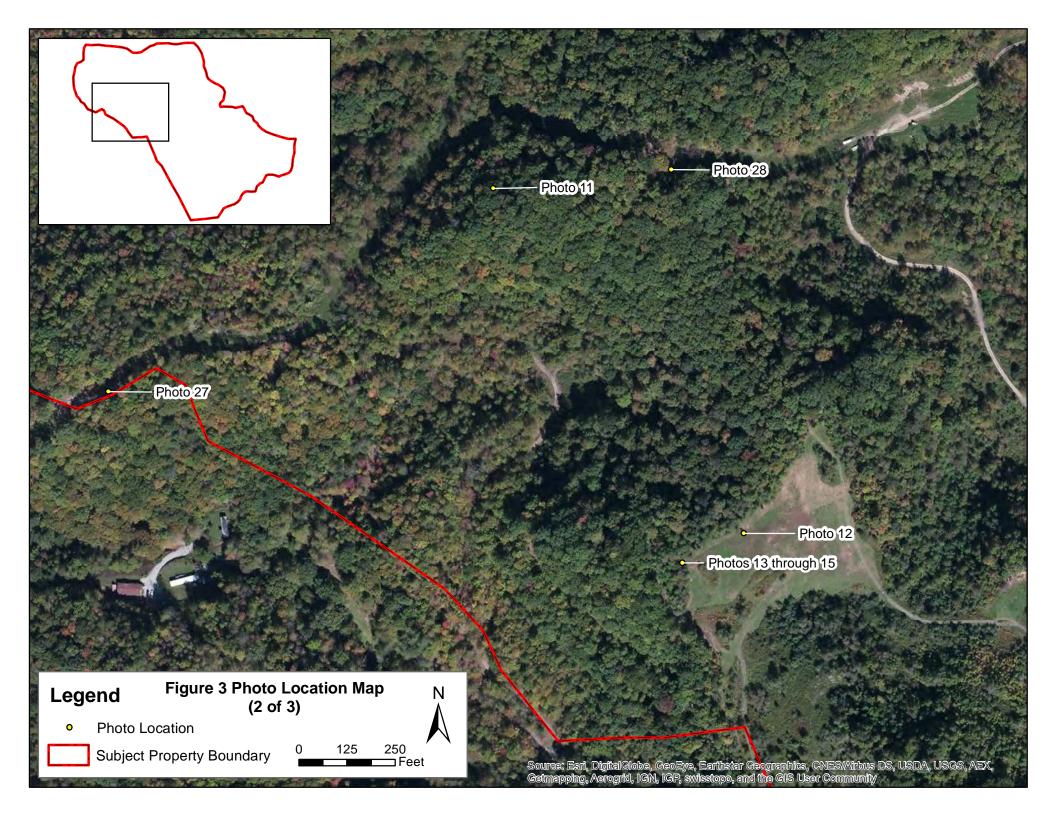
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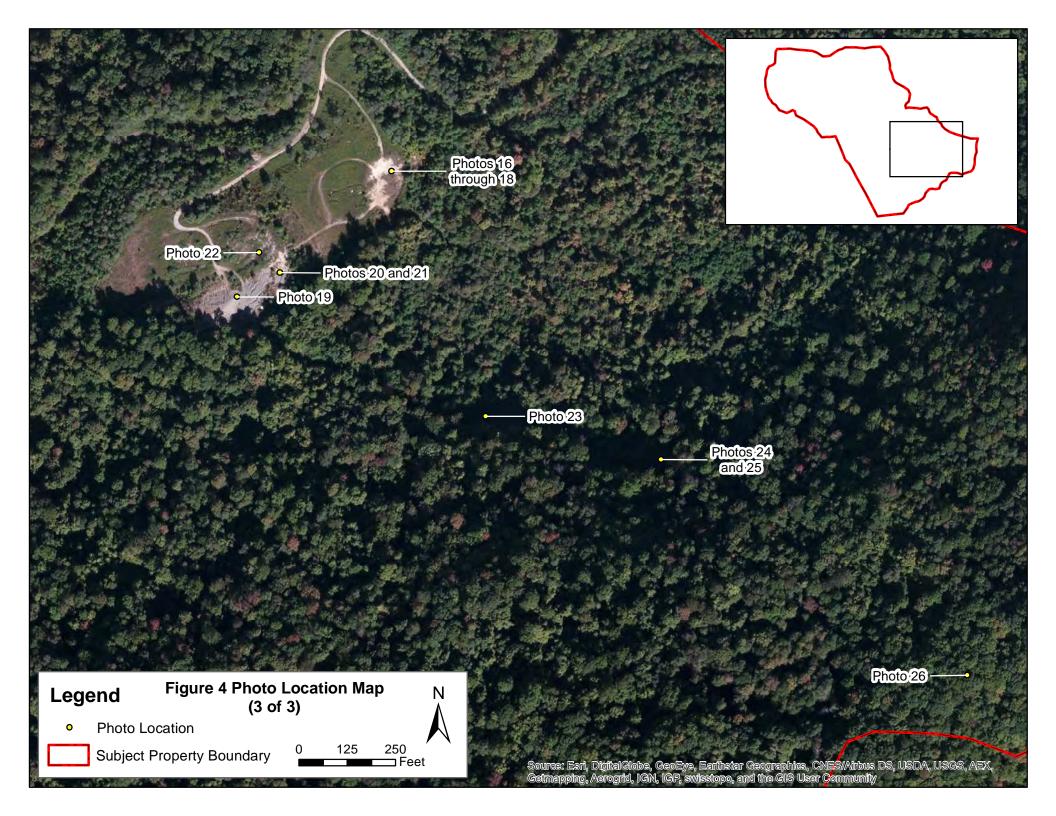
Subject Property Boundary Major Road

Figure 1. Subject Property Location Map









Appendix B: Photographic Record

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Client: Federal Bureau of Prisons Location: Payne Gap, KY

Job Number: 004253 **Date:** July 2015

Photo Number: 1

Description: Oil pumping station

near eastern

boundary of subject

property



Photo Number: 2

Description: Piping associated with oil

pumping station.





Client: Federal Bureau of Prisons Location: Payne Gap, KY

Job Number: 004253 Date: July 2015

Photo Number: 3

Description: Storage tanks within

unlined bermed area northeast of oil pumping

station



Photo Number: 4

Description: Steel oil storage tank





Client: Federal Bureau of Prisons Location

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 5

Description: Plastic storage tank with

stained soil



Photo Number: 6

Description: Open top of plastic

storage tank





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 7

Description: Remnants of warehouse

structure



Photo Number: 8

Description: Floor drain in

warehouse structure





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015



Description: Painted roof

trusses in warehouse structure



Photo Number: 10

Description: Remnants of fire in warehouse

structure.





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 11

Description: Gas transmission line

observed near center of

subject property



Photo Number: 12

Description: Hunting blind in grassy clearing near western

boundary of subject

property





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 13

Description: Tractor and mattress

frame at western end of

grassy clearing



Photo Number: 14

Description: Tractor and mower

attachment





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 15

Description: Tiller attachment for

tractor at western end of grassy clearing



Photo Number: 16

Description: Abandoned tires near sandy clearing near eastern boundary of subject

iear eastern bourdar

property



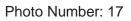


Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015



Description: Discarded tires near

sandy clearing near eastern boundary of subject property



Photo Number: 18

Description: Oily sheen in puddle in race

track area near sandy clearing





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 19

Description: Pole mounted light

fixture in heavily eroded

sandy area



Photo Number: 20

Description: PVC piping exposed by

erosion





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 21

Description: Additional PVC

piping exposed by

erosion



Photo Number: 22

Description: Remnants of manufactured

manufacture building





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 23

Description: Broken PVC

pipe conveying

water



Photo Number: 24

Description: Cistern

structure for

water collection





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 25

Description: Interior of water

collection cistern



Photo Number: 26

Description: Indian Grave Gap





Cardno Photographic Record

Client: Federal Bureau of Prisons

Job Number: 004253

Location: Payne Gap, KY

Date: July 2015

Photo Number: 27

Description: Dump site

containing electronics and construction

debris



Photo Number: 28

Description: Discarded tires



Appendix C: Radius Map

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Paynes Gap 199 County Road 1417 Mayking, KY 41837

Inquiry Number: 4327237.23s

June 16, 2015

The EDR Radius Map™ Report with GeoCheck®

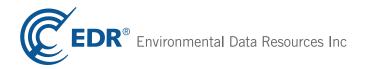


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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

199 COUNTY ROAD 1417 MAYKING, KY 41837

COORDINATES

Latitude (North): 37.1421000 - 37° 8' 31.56" Longitude (West): 82.6972000 - 82° 41' 49.92"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 349261.6 UTM Y (Meters): 4111780.8

Elevation: 1849 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37082-B6 JENKINS WEST, KY VA

Most Recent Revision: 1992

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120706, 20120627

Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 199 COUNTY ROAD 1417 MAYKING, KY 41837

Click on Map ID to see full detail.

MAF ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	FREEMAN FUELS OF KY		US MINES	Lower	1 ft.
A2	BLUEGRASS AUGERS INC		US MINES	Lower	1 ft.
3	M & N CONSTRUCTION C		US MINES	Lower	1 ft.
A4	FREEMAN FUELS OF KY		US MINES	Lower	1 ft.
5			KY SPILLS	Lower	661, 0.125, NE
B6	BLUE GRASS AUGERS IN		US MINES	Lower	1442, 0.273, WSW
B7	A & T AUGERING INC		US MINES	Lower	1442, 0.273, WSW
B8	FREEMAN FUELS OF KY		US MINES	Lower	1443, 0.273, WSW
9	PHILLIPS CREEK COAL		US MINES	Higher	1965, 0.372, SE

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal	NPI	sita	liet

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
	Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF...... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

KY SHWS..... State Leads List

VA SHWS...... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal

NPL list.

State and tribal landfill and/or solid waste disposal site lists

KY SWF/LF..... Solid Waste Facilities List

VA SWF/LF..... Solid Waste Management Facilities

State and tribal leaking storage tank lists

KY SB193..... SB193 Branch Site Inventory List

KY PSTEAF..... Facility Ranking List

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

KY UST...... Underground Storage Tank Database
VA UST...... Registered Petroleum Storage Tanks
INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

KY ENG CONTROLS...... Engineering Controls Site Listing VA ENG CONTROLS..... Engineering Controls Sites Listing

KY INST CONTROL..... State Superfund Database

VA INST CONTROL...... Voluntary Remediation Program Database

State and tribal voluntary cleanup sites

KY VCP....... Voluntary Cleanup Program Sites VA VCP...... Voluntary Remediation Program INDIAN VCP...... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

VA BROWNFIELDS..... Brownfields Site Specific Assessments

KY BROWNFIELDS..... Kentucky Brownfield Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9...... Torres Martinez Reservation Illegal Dump Site Locations

..... Open Dump Inventory KY HIST LF..... Historical Landfills KY SWRCY..... Recycling Facilities

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

KY CDL Clandestine Drub Lab Location Listing
US HIST CDL National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS_____ Hazardous Materials Information Reporting System

VA SPILLS_____ Prep/Spills Database Listing

Other Ascertainable Records

RCRA NonGen / NLR...... RCRA - Non Generators / No Longer Regulated

DOT OPS..... Incident and Accident Data DOD...... Department of Defense Sites FUDS..... Formerly Used Defense Sites

CONSENT Superfund (CERCLA) Consent Decrees ROD Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

PADS...... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System RAATS......RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

KY UIC......UIC Information

VA DRYCLEANERS..... Drycleaner List

KY NPDES Permitted Facility Listing
VA NPDES Comprehensive Environmental Data System

KY AIRS..... Permitted Airs Facility Listing VA AIRS..... Permitted Airs Facility List

KY LEAD..... Environmental Lead Program Report Tracking Database

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

KY Financial Assurance Information Listing

KY COAL ASH..... Coal Ash Disposal Sites

VA COAL ASH..... Coal Ash Disposal Sites

VA Financial Assurance Information Listing

LEAD SMELTERS.....Lead Smelter Sites

US AIRS..... Aerometric Information Retrieval System Facility Subsystem

EPA WATCH LIST..... EPA WATCH LIST

US FIN ASSUR..... Financial Assurance Information

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

KY RGA LF	Recovered Government Archive Solid Waste Facilities List
KY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
VA RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

KY SPILLS: A listing of spill and/or release related incidents.

A review of the KY SPILLS list, as provided by EDR, and dated 05/05/2015 has revealed that there is 1 KY SPILLS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported Facility Status: Env. Closed		NE 1/8 - 1/4 (0.125 mi.)	5	9
Inc ID: 211630				

Other Ascertainable Records

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

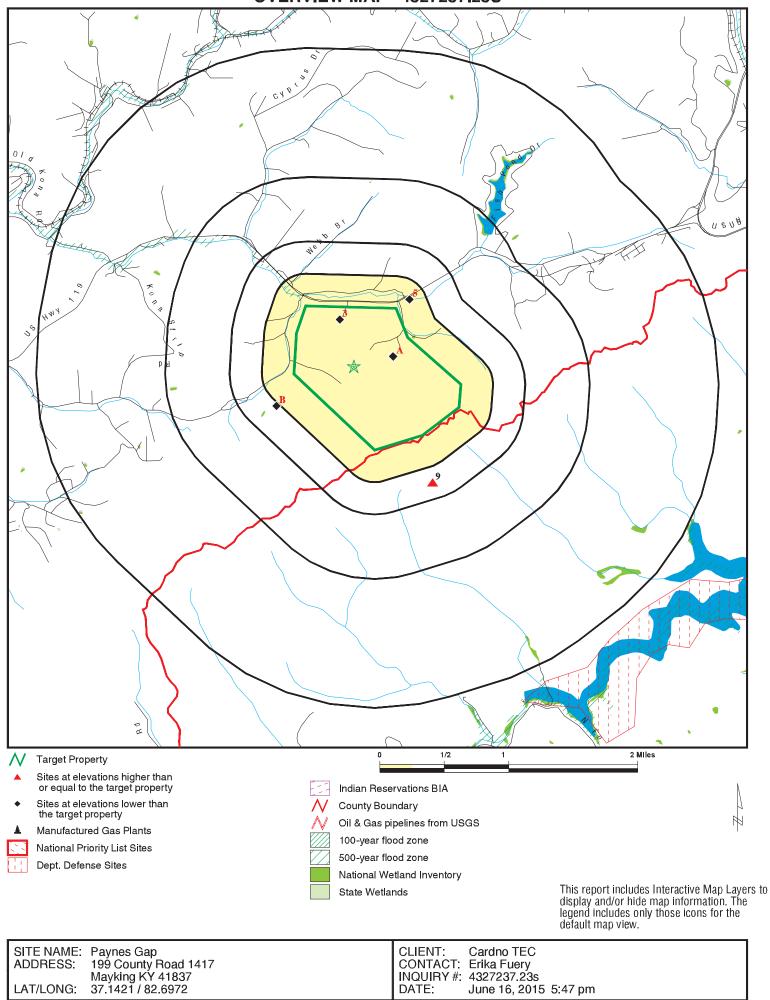
A review of the US MINES list, as provided by EDR, and dated 12/30/2014 has revealed that there are 8 US MINES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHILLIPS CREEK COAL		SE 1/4 - 1/2 (0.372 mi.)	9	11
Lower Elevation	Address	Direction / Distance	Map ID	Page
FREEMAN FUELS OF KY BLUEGRASS AUGERS INC M & N CONSTRUCTION C FREEMAN FUELS OF KY BLUE GRASS AUGERS IN A & T AUGERING INC FREEMAN FUELS OF KY		0 - 1/8 (0.000 mi.) 0 - 1/8 (0.000 mi.) 0 - 1/8 (0.000 mi.) 0 - 1/8 (0.000 mi.) WSW 1/4 - 1/2 (0.273 mi.) WSW 1/4 - 1/2 (0.273 mi.) WSW 1/4 - 1/2 (0.273 mi.)	A1 A2 3 A4 B6 B7 B8	8 8 8 9 10 10

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
DOT	KY SB193
PARCEL 127 DOT	KY SB193
US 119 - LETCHER CO	KY SWF/LF

OVERVIEW MAP - 4327237.23S

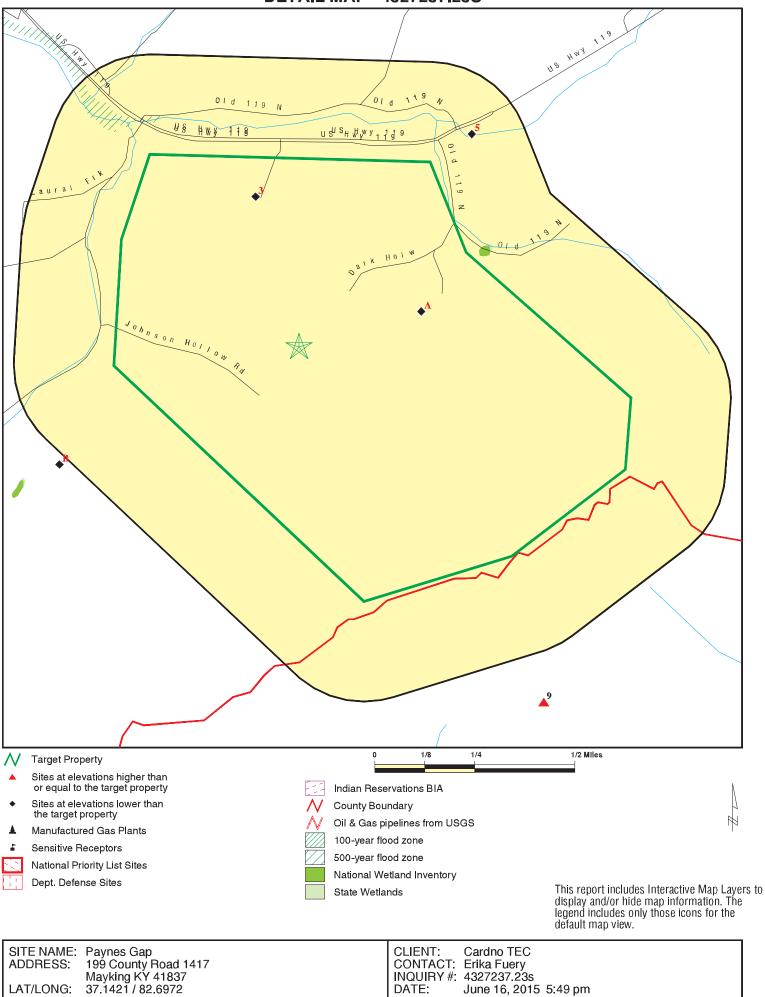


June 16, 2015 5:47 pm Copyright © 2015 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

INQUIRY #: 4327237.23s

DATE:

DETAIL MAP - 4327237.23S



June 16, 2015 5:49 pm Copyright © 2015 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

INQUIRY #: 4327237.23s

DATE:

LAT/LONG:

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.250 1.250 0.250		0 0 0	0 0 0	0 0 NR	0 0 NR	0 0 NR	0 0 0
Federal Delisted NPL site list								
Delisted NPL	1.250		0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.750		0	0	0	0	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.250		0	0	0	0	0	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.750		0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS US INST CONTROL LUCIS	0.750 0.750 0.750		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.250		0	0	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
KY SHWS VA SHWS	1.250 1.250		0 0	0 0	0 0	0 0	0 0	0 0
State and tribal landfill and/or solid waste disposal site lists								
KY SWF/LF VA SWF/LF	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0
State and tribal leaking	storage tank li	ists						
KY SB193 KY PSTEAF	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.750		0	0	0	0	NR	0
State and tribal registered	d storage tar	ık lists						
KY UST VA UST INDIAN UST FEMA UST	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
State and tribal institutional control / engineering control registries								
KY ENG CONTROLS VA ENG CONTROLS KY INST CONTROL VA INST CONTROL	0.500 0.500 0.750 0.750		0 0 0 0	0 0 0 0	0 0 0 0	NR NR 0 0	NR NR NR NR	0 0 0 0
State and tribal voluntary	cleanup site	es						
KY VCP VA VCP INDIAN VCP	0.750 0.750 0.750		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
State and tribal Brownfields sites								
VA BROWNFIELDS KY BROWNFIELDS	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.750		0	0	0	0	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9 ODI KY HIST LF KY SWRCY INDIAN ODI	0.750 0.750 0.750 0.750 0.750		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL KY CDL US HIST CDL	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency R	-	rts						
HMIRS KY SPILLS VA SPILLS	0.250 0.250 0.250		0 0 0	0 1 0	NR NR NR	NR NR NR	NR NR NR	0 1 0

Other Ascertainable Records RCRA NonGen / NLR 0.500 0 0 0 NR NR NR 0 DOT OPS 0.250 0 0 NR NR NR NR 0 DOD 1.250 0 0 0 0 0 0 0 FUDS 1.250 0 0 0 0 0 0 0 CONSENT 1.250 0 0 0 0 0 0 0 0 0 ROD 1.250 NR NR 0 0 0 <t< th=""><th>ed_</th></t<>	ed_								
DOT OPS 0.250 0 0 NR NR NR 0 DOD 1.250 0 0 0 0 0 0 0 FUDS 1.250 0 0 0 0 0 0 0 0 CONSENT 1.250 NR 0 0 0 0 0 NR NR NR NR NR NR NR 0 0 0 NR NR NR NR NR 0 0 0 NR NR NR NR	Other Ascertainable Records								
DOD 1.250 0 0 0 0 0 0 0 FUDS 1.250 0 0 0 0 0 0 0 CONSENT 1.250 0 0 0 0 0 0 0 ROD 1.250 0 0 0 0 0 0 0 UMTRA 0.750 0 0 0 0 NR 0 US MINES 0.500 4 0 4 NR NR NR TRIS 0.250 0 0 NR NR NR 0									
FUDS 1.250 0 0 0 0 0 0 0 CONSENT 1.250 0 0 0 0 0 0 0 ROD 1.250 0 0 0 0 0 0 0 UMTRA 0.750 0 0 0 0 NR 0 US MINES 0.500 4 0 4 NR NR NR TRIS 0.250 0 0 NR NR NR 0									
CONSENT 1.250 0 0 0 0 0 0 0 ROD 1.250 0 0 0 0 0 0 0 UMTRA 0.750 0 0 0 0 NR 0 US MINES 0.500 4 0 4 NR NR NR TRIS 0.250 0 0 NR NR NR 0									
ROD 1.250 0 0 0 0 0 0 0 UMTRA 0.750 0 0 0 0 NR 0 US MINES 0.500 4 0 4 NR NR NR TRIS 0.250 0 0 NR NR NR 0									
UMTRA 0.750 0 0 0 NR 0 US MINES 0.500 4 0 4 NR NR 8 TRIS 0.250 0 0 NR NR NR 0									
US MINES 0.500 4 0 4 NR NR 8 TRIS 0.250 0 0 NR NR NR 0									
TRIS 0.250 0 0 NR NR NR 0									
TSCA 0.250 0 0 NR NR NR 0									
FTTS 0.250 0 0 NR NR NR 0									
HIST FTTS 0.250 0 0 NR NR NR 0 SSTS 0.250 0 0 NR NR NR 0									
ICIS 0.250 0 0 NR NR NR 0 PADS 0.250 0 0 NR NR NR 0									
MLTS 0.250 0 0 NR NR NR 0									
RADINFO 0.250 0 0 NR NR NR 0									
FINDS 0.250 0 0 NR NR NR 0									
RAATS 0.250 0 0 NR NR NR 0									
RMP 0.250 0 0 NR NR NR 0									
KY UIC 0.250 0 0 NR NR NR 0									
VA UIC 0.250 0 0 NR NR NR 0									
KY DRYCLEANERS 0.500 0 0 NR NR 0									
VA DRYCLEANERS 0.500 0 0 NR NR 0									
KY NPDES 0.250 0 0 NR NR NR 0									
VA NPDES 0.250 0 0 NR NR NR 0									
KY AIRS 0.250 0 0 NR NR NR 0									
VA AIRS 0.250 0 0 NR NR NR 0									
KY LEAD 0.250 0 0 NR NR NR 0									
INDIAN RESERV 1.250 0 0 0 0 0 0									
SCRD DRYCLEANERS 0.750 0 0 0 NR 0									
KY Financial Assurance 0.250 0 0 NR NR NR 0									
KY COAL ASH 0.750 0 0 0 NR 0									
VA COAL ASH 0.750 0 0 0 NR 0 VA Financial Assurance 0.250 0 0 NR NR NR 0									
LEAD SMELTERS 0.250 0 0 NR NR NR 0									
US AIRS 0.250 0 0 NR NR NR 0									
EPA WATCH LIST 0.250 0 0 NR NR NR 0									
US FIN ASSUR 0.250 0 0 NR NR NR 0									
COAL ASH EPA 0.750 0 0 0 NR 0									
PCB TRANSFORMER 0.250 0 0 NR NR NR 0									
COAL ASH DOE 0.250 0 0 NR NR NR 0									
2020 COR ACTION 0.500 0 0 NR NR 0									
PRP 0.250 0 0 NR NR NR 0									
EDR HIGH RISK HISTORICAL RECORDS									
EDR Exclusive Records									
EDR MGP 1.250 0 0 0 0 0									

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
EDR US Hist Auto Stat EDR US Hist Cleaners	0.500 0.500		0	0 0	0 0	NR NR	NR NR	0 0		
EDR RECOVERED GOVERNMENT ARCHIVES										
Exclusive Recovered Govt. Archives										
KY RGA LF KY RGA HWS VA RGA LF	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0		
- Totals		0	4	1	4	0	0	9		

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

A1 FREEMAN FUELS OF KY INC US MINES 1016483390

N/A

N/A

< 1/8 LETCHER (County), KY 1 ft.

Site 1 of 3 in cluster A

Relative: Lower

ve: US MINES:
Mine ID:

1515793

Actual: Entity name: MOUNTAIN TOP #2

1730 ft. Company: FREEMAN FUELS OF KY INC

Status: D

Status date: 19910630 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 08 35 Longitude: 082 41 30

A2 BLUEGRASS AUGERS INC US MINES 1011164357

< 1/8 LETCHER (County), KY 1 ft.

Site 2 of 3 in cluster A

Relative: US MINES:

Lower Mine ID: 1513686

Actual: Entity name: NO 1 SURFACE

1746 ft. Company: BLUEGRASS AUGERS INC

Status: D

Status date: 19820901 Operation Class: Coal Mining

Number of shops: 0
Number of plants: 0

Latitude: 37 08 35 Longitude: 082 41 30

3 M & N CONSTRUCTION COMPANY INC US MINES 1011165531 N/A

< 1/8 LETCHER (County), KY

1 ft.

US MINES:

Relative: Mine ID: 1514861

Lower SIC code(s): 122200 000000 000000 000000 000000

Entity name: NO 1 SURFACE

Actual: Company: M & N CONSTRUCTION COMPANY INC

1592 ft. Status:

Status date: 19860301 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 08 51 Longitude: 082 41 57

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

Α4 FREEMAN FUELS OF KY INC **US MINES** 1016151752

N/A

N/A

< 1/8 PIKE (County), KY

1 ft.

Site 3 of 3 in cluster A

Relative: Lower

US MINES: Mine ID: 1516506

SIC code(s):

Actual: Entity name: STRIP AND AUGER #1 1730 ft. Company: FREEMAN FUELS OF KY INC

Status:

Status date: 19920330 Operation Class: Coal Mining

Number of shops: 0 Number of plants: Latitude: 37 21 13 Longitude: 082 37 09

KY SPILLS \$117104069 5 ΝE

1/8-1/4 LETCHER (County), KY

Priority:

0.125 mi. 661 ft.

SPILLS: Relative:

Facility Status: Env. Closed Lower

Incident Type: AIR RELEASE, FUGITIVE EMISSIONS

Actual: Program Code: Not reported 1392 ft. Received By Staff: McCune, Rich

09/02/2006 Received Date: Report Date: 8/2/06 12:27

Dispatch Description: Coal truck traffic is causing excessive amounts of dust. "This dust is

killing us.'

Routine

Source Name: Not reported

Source Address: Off of Highway 119 halfway between Jenkins and Whitesburg in Bill

Lewis Hollow in Letcher Co.

Substances: Not reported Other Substances Desc: Not reported Media Impacted: Air Inc ID: 211630 Lead Invest Person ID: 7112 Compliance: Yes Notification: No

9/27/2006 12:00:00 AM Incident End Date:

Follow Up Priority Desc: Routine Most Recent Comp Eval Activity: Not reported Most Recent ENF Activity: Not reported Begin Emergency Date: Not reported End Emergency Date: Not reported MARS Function Code: Not reported Locked: Not reported Closure Type Desc: Not reported

Latitude: 82.689372 Longitude: -37.149764

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

B6 BLUE GRASS AUGERS INC US MINES 1011167207 N/A

WSW

1/4-1/2 LETCHER (County), KY

0.273 mi.

1442 ft. Site 1 of 3 in cluster B

Relative:

US MINES: Lower Mine ID:

1516550 SIC code(s):

Actual: Entity name: BLUEGRASS #1

1607 ft. Company: **BLUE GRASS AUGERS INC**

> Status: Status date: 19891102

Operation Class: Coal Mining Number of shops: 0

Number of plants: 0 Latitude: 37 08 16 Longitude: 082 42 29

US MINES B7 A & T AUGERING INC 1011167195

wsw

1/4-1/2 LETCHER (County), KY

0.273 mi.

1442 ft. Site 2 of 3 in cluster B

US MINES: Relative:

Mine ID: 1516538 Lower

SIC code(s):

Actual: Entity name: NO 1 AUGER 1607 ft.

Company: A & T AUGERING INC

D Status:

Status date: 19930512 Operation Class: Coal Mining

Number of shops: Number of plants: 0

37 08 16 Latitude: Longitude: 082 42 29

В8 FREEMAN FUELS OF KY INC **US MINES** 1016483547

wsw

1/4-1/2 LETCHER (County), KY

0.273 mi.

1443 ft. Site 3 of 3 in cluster B

US MINES: Relative:

Mine ID: 1516496 Lower

SIC code(s):

Actual: Entity name: NO 2 STRIP AND AUGER 1607 ft. Company: FREEMAN FUELS OF KY INC

Status:

Status date: 19910123 Operation Class: Coal Mining

Number of shops: Number of plants: 0 Latitude:

37 08 16 Longitude: 082 42 29 N/A

N/A

Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PHILLIPS CREEK COAL COMPANY **US MINES** 1011237978 9 N/A

SE

1/4-1/2 WISE (County), VA

0.372 mi. 1965 ft.

US MINES: Relative:

4405157 Mine ID: Higher

SIC code(s):

Actual: Entity name: NO 1 2813 ft.

Company: PHILLIPS CREEK COAL COMPANY

Status:

Status date: 19811218 Operation Class: **Coal Mining**

Number of shops: 0 Number of plants: Latitude: 37 07 45 Longitude: 082 41 09 Count: 3 records. ORPHAN SUMMARY

City	EDR ID S	Site Name	Site Address	Zip	Database(s)
ERMINE	S106987675 [DOT	US 119	41858	KY SB193
PAYNE GAP	S106855020 F	PARCEL 127 DOT	US 23 AT HWY 119	41537	KY SB193
WHITESBURG	S109843222 U	US 119 - LETCHER CO	US 119	41858	KY SWF/LF

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: EPA Telephone: N/A

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Last EDR Contact: 04/08/2015

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/08/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 13

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 63

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

KY SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

VA SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Telephone: 804-698-4236

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Undate: 0

Date Made Active in Reports: N/A
Number of Days to Update: 0

Last EDR Contact: 03/23/2015

Next Scheduled EDR Contact: 07/06/2015

Data Release Frequency: No Update Planned

Source: Department of Environmental Quality

State and tribal landfill and/or solid waste disposal site lists

KY SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/11/2014 Date Data Arrived at EDR: 06/13/2014 Date Made Active in Reports: 07/23/2014

Number of Days to Update: 40

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Semi-Annually

VA SWF/LF: Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/17/2015 Date Data Arrived at EDR: 04/20/2015 Date Made Active in Reports: 04/24/2015

Number of Days to Update: 4

Source: Department of Environmental Quality

Telephone: 804-698-4238 Last EDR Contact: 06/04/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

KY SB193: SB193 Branch Site Inventory List

The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006 Date Data Arrived at EDR: 09/13/2006 Date Made Active in Reports: 10/18/2006

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: No Update Planned

KY PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/01/2015 Date Data Arrived at EDR: 04/15/2015 Date Made Active in Reports: 04/30/2015

Number of Days to Update: 15

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 04/15/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 32

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 29

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 01/08/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 01/28/2015 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/10/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 31

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013

Number of Days to Update: 184

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/03/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

KY UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/04/2015 Date Data Arrived at EDR: 03/04/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

VA UST: Registered Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/02/2015 Date Data Arrived at EDR: 03/05/2015 Date Made Active in Reports: 03/20/2015

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 36

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 28

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 01/27/2014

Number of Days to Update: 271

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/28/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 29

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 28

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/13/2015

Next Scheduled EDR Contact: 07/27/2015

Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

KY ENG CONTROLS: Engineering Controls Site Listing

A listing of sites that use engineering controls.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

VA ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with Engineering Controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 04/02/2015 Date Data Arrived at EDR: 04/07/2015 Date Made Active in Reports: 04/14/2015

Number of Days to Update: 7

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 09/29/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

KY INST CONTROL: State Superfund Database

A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

VA INST CONTROL: Voluntary Remediation Program Database

Sites included in the Voluntary Remediation Program database that have deed restrictions.

Date of Government Version: 04/02/2015 Date Data Arrived at EDR: 04/07/2015 Date Made Active in Reports: 04/14/2015

Number of Days to Update: 7

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 09/29/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

KY VCP: Voluntary Cleanup Program Sites

Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

VA VRP: Voluntary Remediation Program

The Voluntary Cleanup Program encourages owners of elected contaminated sites to take the initiative and conduct voluntary cleanups that meet state environmental standards.

Date of Government Version: 04/02/2015 Date Data Arrived at EDR: 04/07/2015 Date Made Active in Reports: 04/14/2015

Number of Days to Update: 7

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 09/29/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014 Date Data Arrived at EDR: 10/01/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 36

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/02/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

State and tribal Brownfields sites

VA BROWNFIELDS: Brownfields Site Specific Assessments

To qualify for Brownfields Assessment, the site must meet the Federal definition of a Brownfields and should have contaminant issues that need to be addressed and a redevelopment plan supported by the local government and community. Virginia's Department of Environmental Quality performs brownfields assessments under a cooperative agreement with the U.S. Environmental Protection Agency at no cost to communities, property owners or, prospective purchasers. The assessment is an evaluation of environmental impacts caused by previous site uses similar to a Phase II Environmental Assessment.

Date of Government Version: 04/29/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 33

Source: Department of Environmental Quality

Telephone: 804-698-4207 Last EDR Contact: 04/29/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

KY BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 26

Source: Division of Compliance Assistance

Telephone: 502-564-0323 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015 Date Data Arrived at EDR: 03/24/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/24/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/23/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: No Update Planned

KY HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006

Number of Days to Update: 32

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

KY SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Kentucky.

Date of Government Version: 04/07/2014 Date Data Arrived at EDR: 04/25/2014 Date Made Active in Reports: 05/12/2014

Number of Days to Update: 17

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 04/23/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/01/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Telephone: 202-307-1000

Last EDR Contact: 05/29/2015

Date of Government Version: 02/25/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

KY CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

Date of Government Version: 03/24/2015 Date Data Arrived at EDR: 03/26/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 8

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

Source: Drug Enforcement Administration

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

KY SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 06/15/2015

Number of Days to Update: 39

Source: DEP, Emergency Response

Telephone: 502-564-2380 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Varies

VA SPILLS WC: Prep Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/21/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, West Central Region

Telephone: 540-562-6700 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

VA SPILLS: Prep/Spills Database Listing

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment. PREP staff often work to assist local emergency responders, other state agencies, federal agencies, and responsible parties, as may be needed, to manage pollution incidents. Oil spills, fish kills, and hazardous materials spills are examples of incidents that may involve the DEQ's PREP Program.

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 03/05/2015 Date Made Active in Reports: 03/20/2015

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

VA SPILLS BRL: Prep/Spills Database Listing

A listing of spills locations located in the Blue Ridge Regional area, Lynchburg.

Date of Government Version: 09/18/2009 Date Data Arrived at EDR: 09/18/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 18

Source: DEQ, Blue Ridge Regional Office

Telephone: 434-582-6218 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Varies

VA SPILLS PC: Pollution Complaint Database

Pollution Complaints Database. The pollution reports contained in the PC database include the initial release reporting of Leaking Underground Storage Tanks and all other releases of petroleum to the environment as well as releases to state waters. The database is current through 12/1/93. Since that time, all spill and pollution reporting information has been collected and tracked through the DEQ regional offices.

Date of Government Version: 06/01/1996 Date Data Arrived at EDR: 10/22/1996 Date Made Active in Reports: 11/21/1996

Number of Days to Update: 30

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 03/08/2010

Next Scheduled EDR Contact: 06/21/2010 Data Release Frequency: No Update Planned

VA SPILLS NO: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, Northern Region

Telephone: 703-583-3864 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

VA SPILLS PD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 10/20/2009 Date Data Arrived at EDR: 10/29/2009 Date Made Active in Reports: 12/03/2009

Number of Days to Update: 35

Source: Department of Environmental Quality, Piedmont Region

Telephone: 804-527-5020 Last EDR Contact: 02/06/2012

Next Scheduled EDR Contact: 05/21/2012 Data Release Frequency: Quarterly

VA SPILLS SW: Reportable Spills

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 01/21/2010 Date Data Arrived at EDR: 01/22/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 25

Source: Department of Environmental Quality, Southwest Region

Telephone: 276-676-4839 Last EDR Contact: 07/13/2012

Next Scheduled EDR Contact: 10/29/2012 Data Release Frequency: No Update Planned

VA SPILLS TD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/17/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 13

Source: Department of Environmental Quality, Tidewater Region

Telephone: trofoia@deq.vir Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: Quarterly

VA SPILLS VA: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 08/08/2012 Date Data Arrived at EDR: 08/09/2012 Date Made Active in Reports: 10/05/2012

Number of Days to Update: 57

Source: Department of Environmental Quality, Valley Regional Office

Telephone: 540-574-7800 Last EDR Contact: 05/06/2013

Next Scheduled EDR Contact: 08/19/2013 Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/05/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Source: USGS

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Telephone: 888-275-8747 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 8

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 04/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013 Date Data Arrived at EDR: 12/12/2013 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 74

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014 Date Data Arrived at EDR: 12/31/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 110

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 01/29/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 14

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/27/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/10/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/06/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 33

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015 Date Data Arrived at EDR: 04/09/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 63

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 06/04/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015 Date Data Arrived at EDR: 04/09/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015 Date Data Arrived at EDR: 02/27/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 26

Source: EPA

Telephone: (404) 562-9900 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/25/2015 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-8600

Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Biennially

KY UIC: UIC Information

A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 04/16/2015 Date Data Arrived at EDR: 04/20/2015 Date Made Active in Reports: 04/30/2015

Number of Days to Update: 10

Source: Kentucky Geological Survey Telephone: 859-323-0544 Last EDR Contact: 04/20/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Quarterly

VA UIC: Underground Injection Control Wells

A listing of underground injection controls wells.

Date of Government Version: 05/04/2015 Date Data Arrived at EDR: 05/06/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 27

Source: Department of Mines, Minerals and Energy

Telephone: 276-415-9700 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

KY DRYCLEANERS: Drycleaner Listing
A listing of drycleaner facility locations.

Date of Government Version: 11/26/2014 Date Data Arrived at EDR: 12/01/2014 Date Made Active in Reports: 12/29/2014

Number of Days to Update: 28

Source: Department of Environmental Protection

Telephone: 502-573-3382 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

VA DRYCLEANERS: Drycleaner List A listing of registered drycleaners.

> Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 04/23/2015 Date Made Active in Reports: 04/24/2015

Number of Days to Update: 1

Source: Department of Environmental Quality

Telephone: 804-698-4407 Last EDR Contact: 04/13/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Varies

KY NPDES: Permitted Facility Listing
A listing of permitted wastewater facilities.

Date of Government Version: 03/03/2015 Date Data Arrived at EDR: 03/05/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 6

Source: Department of Environmental Protection

Telephone: 502-564-3410 Last EDR Contact: 05/12/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

VA CEDS: Comprehensive Environmental Data System

Virginia Water Protection Permits, Virginia Pollution Discharge System (point discharge) permits and Virginia Pollution Abatement (no point discharge) permits.

Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 04/24/2015

Number of Days to Update: 45

Source: Department of Environmental Quality

Telephone: 804-698-4077 Last EDR Contact: 06/04/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Semi-Annually

KY AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities.

Date of Government Version: 03/02/2015 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 8

Source: Department of Environmental Protection

Telephone: 502-573-3382 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

VA AIRS: Permitted Airs Facility List
A listing of permitted Airs facilities.

Date of Government Version: 03/05/2015 Date Data Arrived at EDR: 03/06/2015 Date Made Active in Reports: 03/20/2015

Number of Days to Update: 14

Source: Department of Environmental Quality

Telephone: 804-698-4000 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

KY LEAD: Environmental Lead Program Report Tracking Database

Lead Report Tracking Database

Date of Government Version: 08/31/2014 Date Data Arrived at EDR: 12/05/2014 Date Made Active in Reports: 12/29/2014

Number of Days to Update: 24

Source: Department of Public Health

Telephone: 502-564-4537 Last EDR Contact: 05/08/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas,

Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

KY Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information.

Date of Government Version: 04/08/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 4

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

KY Financial Assurance 2: Financial Assurance Information Listing

Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014 Date Data Arrived at EDR: 06/06/2014 Date Made Active in Reports: 06/24/2014

Number of Days to Update: 18

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

KY COAL ASH: Coal Ash Disposal Sites

A listing of coal ash pond site locations.

Date of Government Version: 12/09/2013 Date Data Arrived at EDR: 05/01/2014 Date Made Active in Reports: 07/07/2014

Number of Days to Update: 67

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

KY Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 4

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/01/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

VA Financial Assurance 2: Financial Assurance Information listing

Solid waste financial assurance information.

Date of Government Version: 05/02/2015 Date Data Arrived at EDR: 05/08/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 804-698-4123 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/15/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/07/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/10/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites

may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015

Data Release Frequency: N/A

VA Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the appropriate of a regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regulated facility is unable as a regulated facility in the regula

if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/12/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 02/25/2015

Number of Days to Update: 12

Source: Department of Environmental Quality

Telephone: 804-698-4205 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

VA COAL ASH: Coal Ash Disposal Sites

A listing of facilities with coal ash impoundments.

Date of Government Version: 07/29/2009 Date Data Arrived at EDR: 07/31/2009 Date Made Active in Reports: 08/21/2009

Number of Days to Update: 21

Source: Department of Environmental Protection

Telephone: 804-698-4285 Last EDR Contact: 06/04/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015

Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

KY RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A

Date Data Arrived at EDR: 07/01/2013

Date Made Active in Reports: 01/03/2014

Source: Department of Environmental Protection
Telephone: N/A

Last EDR Contact: 06/01/2012

Number of Days to Update: 186

Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

KY RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A Source: Department of Environmental Protection Date Data Arrived at EDR: 07/01/2013 Telephone: N/A

Date Made Active in Reports: 01/15/2014

Number of Days to Update: 198

Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

VA RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virgina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/20/2014
Number of Days to Update: 203

Source: Department of Environmental Quality Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/29/2015

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/06/2015 Date Made Active in Reports: 05/20/2015

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014

Number of Days to Update: 29

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015

Number of Days to Update: 19

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/11/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes Source: Cabinet for Families & Children

Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet

Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PAYNES GAP 199 COUNTY ROAD 1417 MAYKING, KY 41837

TARGET PROPERTY COORDINATES

Latitude (North): 37.1421 - 37° 8' 31.56" Longitude (West): 82.6972 - 82° 41' 49.92"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 349261.6 UTM Y (Meters): 4111780.8

Elevation: 1849 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 37082-B6 JENKINS WEST, KY VA

Most Recent Revision: 1992

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

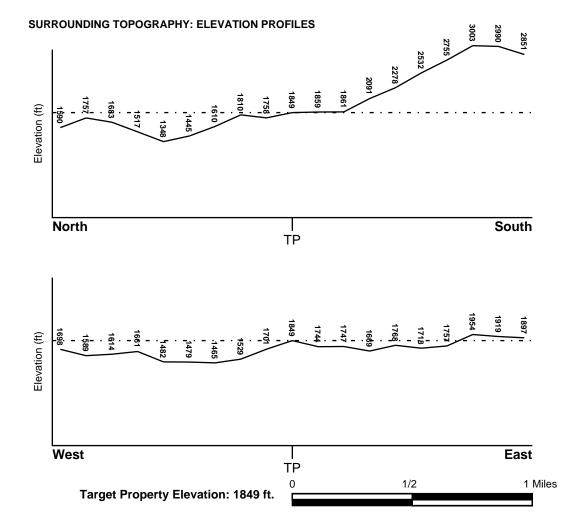
Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County LETCHER, KY

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

21133C - FEMA DFIRM Flood data

Additional Panels in search area:

51195C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

JENKINS WEST

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP

GENERAL DIRECTION GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic Category: Stratifed Sequence

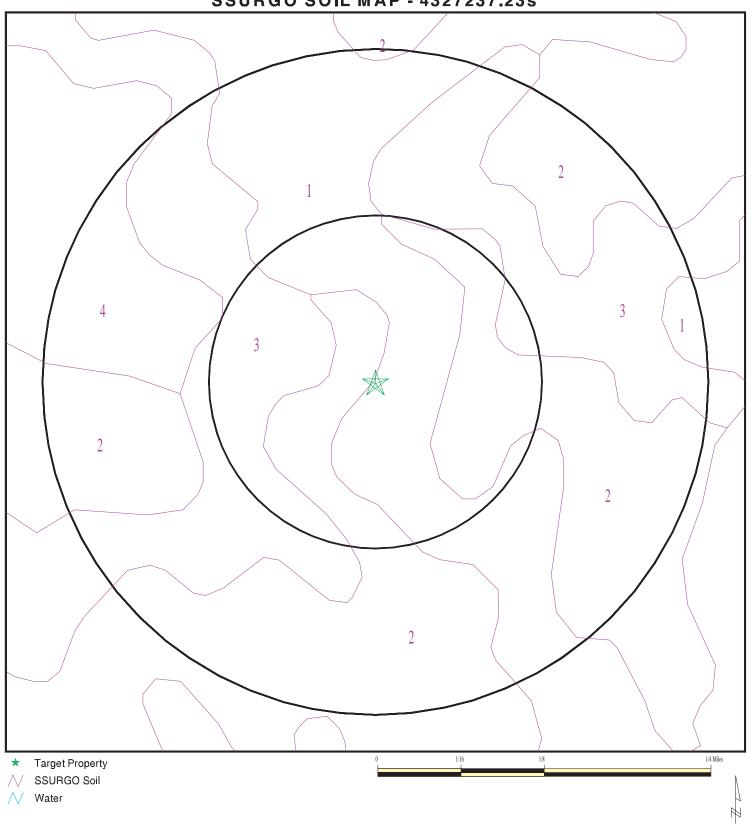
System: Pennsylvanian

Series: Atokan and Morrowan Series

Code: PP1 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4327237.23s



SITE NAME: Paynes Gap ADDRESS: 199 County Road 1417 Mayking KY 41837 LAT/LONG: 37.1421 / 82.6972

CLIENT: Cardno IEC CONTACT: Erika Fuery INQUIRY #: 4327237.23s DATE: June 16, 2015 5:50 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Dekalb

Soil Surface Texture: channery sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 64 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information										
	Boundary			Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)			
1	0 inches	1 inches	channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 42	Max: 5.5 Min: 3.6			
2	1 inches	25 inches	very channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 42	Max: 5.5 Min: 3.6			

	Soil Layer Information							
	Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)	
3	25 inches	29 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:	

Soil Map ID: 2

Soil Component Name: Kimper
Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 5.1	
2	5 inches	61 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6 Min: 4.5	

	Soil Layer Information							
	Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec (pH)		
3	61 inches	79 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6 Min: 4.5	

Soil Map ID: 3

Soil Component Name: Kaymine

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	14 inches	channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 4	Max: 7.8 Min: 5.6
2	14 inches	79 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 4	Max: 7.8 Min: 5.6

Soil Map ID: 4

Soil Component Name: Shelocta

Soil Surface Texture: silt loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 0 inches

	Soil Layer Information							
Boundary		ındary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity	Soil Reaction (pH)	
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 4.5	
2	3 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5	
3	27 inches	55 inches	very channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 5.5 Min: 4.5	
4	55 inches	66 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:	

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

 MAP ID
 WELL ID
 ECATION FROM TP

 E21
 USGS40000380388
 1/2 - 1 Mile NW

 G30
 USGS40000380432
 1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	KY5000000025103	1/4 - 1/2 Mile North
2	KY5000000025162	1/4 - 1/2 Mile North
A3	KY500000024909	1/4 - 1/2 Mile WNW
B4	KY500000024803	1/2 - 1 Mile West
B5	KY500000024771	1/2 - 1 Mile West
C6	KY500000025185	1/2 - 1 Mile NNE
A7	KY500000024942	1/2 - 1 Mile WNW
C8	KY500000025244	1/2 - 1 Mile North
D9	KY500000025033	1/2 - 1 Mile WNW
D10	KY500000024992	1/2 - 1 Mile WNW
C11	KY500000025247	1/2 - 1 Mile NNE
12	KY500000025269	1/2 - 1 Mile North
13	KY5000000025234	1/2 - 1 Mile NNW
14	KY500000025265	1/2 - 1 Mile NNE
D15	KY500000025059	1/2 - 1 Mile NW
D16	KY500000025073	1/2 - 1 Mile NW
E17	KY500000025150	1/2 - 1 Mile NW
18	KY500000024690	1/2 - 1 Mile West
19	KY500000024962	1/2 - 1 Mile WNW

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

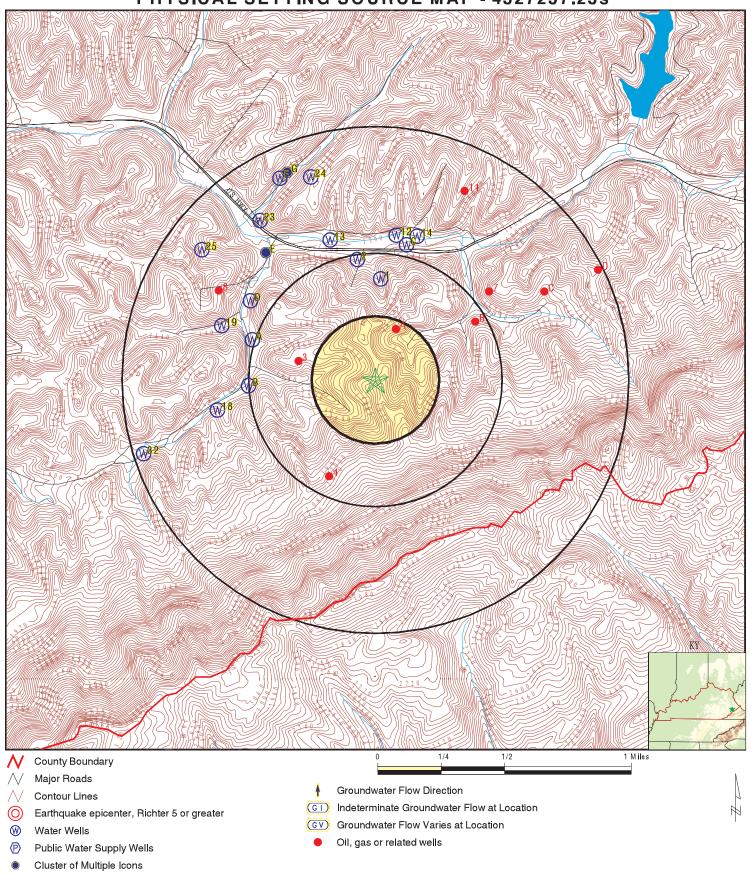
WELL ID	LOCATION FROM TP
KY5000000025187	1/2 - 1 Mile NW
KY500000025186	1/2 - 1 Mile NW
KY500000025317	1/2 - 1 Mile NW
KY500000025466	1/2 - 1 Mile NNW
KY500000025178	1/2 - 1 Mile NW
KY500000025430	1/2 - 1 Mile NNW
KY500000025467	1/2 - 1 Mile NNW
KY500000025486	1/2 - 1 Mile NNW
KY500000025487	1/2 - 1 Mile NNW
KY500000025485	1/2 - 1 Mile NNW
KY500000024560	1/2 - 1 Mile WSW
	KY5000000025187 KY5000000025186 KY5000000025317 KY5000000025466 KY5000000025178 KY5000000025430 KY5000000025467 KY5000000025486 KY5000000025487 KY5000000025485

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
	KYOG11000120393	1/8 - 1/4 Mile NNE
A2	KYOG11000120394	1/8 - 1/4 Mile NNE
3	KYOG11000105654	1/4 - 1/2 Mile WNW
4	KYOG11000105748	1/4 - 1/2 Mile SSW
B5	KYOG11000119988	1/4 - 1/2 Mile ENE
B6	KYOG11000119989	1/4 - 1/2 Mile ENE
7	KYOG11000091067	1/2 - 1 Mile NE
8	KYOG11000012178	1/2 - 1 Mile WNW
C9	KYOG11000121034	1/2 - 1 Mile ENE
C10	KYOG11000121035	1/2 - 1 Mile ENE
11	KYOG11000091066	1/2 - 1 Mile NNE
D12	KYOG11000121777	1/2 - 1 Mile ENE
D13	KYOG11000121778	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 4327237.23s



SITE NAME: Paynes Gap
ADDRESS: 199 County Road 1417
Mayking KY 41837
LAT/LONG: 37.1421 / 82.6972

CLIENT: Cardno TEC CONTACT: Erika Fuery Cardno TEC INQUIRY #: 4327237.23s

DATE: June 16, 2015 5:50 pm

Map ID Direction Distance

Elevation Database **EDR ID Number**

KY WELLS KY5000000025103 North

1/4 - 1/2 Mile Lower

> Location i: 233568 North lati: 37.14788 West longi: -82.69682

00045519 Water Well Akgwa numb: Site type: Primary us: Domestic Constructi: 13-JUL-96

Site id: KY5000000025103

KY WELLS KY5000000025162

North 1/4 - 1/2 Mile Lower

Location i: 267492 North lati: 37.14899

West longi: -82.69849

Akgwa numb: 00043617 Site type: Water Well Primary us: 08-APR-96 Domestic Constructi:

Site id: KY5000000025162

A3 WNW **KY WELLS** KY5000000024909

1/4 - 1/2 Mile Lower

> Location i: 312475 North lati: 37.14399

West longi: -82.70593 Akgwa numb: 00052568

Site type: Primary us: 02-OCT-99 Domestic Constructi:

Site id: KY5000000024909

KY WELLS KY500000024803

B4 West 1/2 - 1 Mile Lower

Lower

233543 Location i: North lati: 37.14205

West longi: -82.70627

Akgwa numb: 00031622 Site type: Water Well Constructi: 07-DEC-93 Primary us: Domestic

KY5000000024803 Site id:

B5 West 1/2 - 1 Mile **KY WELLS** KY5000000024771

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Water Well

Location i: 312768 North lati: 37.14149 West longi: -82.70627

Akgwa numb: 00053932 Site type: Water Well Primary us: 21-JUN-00 Domestic Constructi:

Site id: KY5000000024771

C6 NNE **KY WELLS** KY5000000025185

1/2 - 1 Mile Lower

> Location i: 261962 North lati: 37.14927 West longi: -82.69516

Water Well Akgwa numb: 00057785 Site type: Primary us: Constructi: 28-JAN-02 Domestic

Site id: KY5000000025185

A7 WNW **KY WELLS** KY5000000024942

1/2 - 1 Mile

Lower

250096 Location i: North lati: 37.1448 West longi: -82.70605

Akgwa numb: 00054838 Water Well Site type: Primary us: Domestic Constructi: 01-JAN-00

Site id: KY5000000024942

C8 KY5000000025244 **KY WELLS**

North 1/2 - 1 Mile Lower

> Location i: 45002 North lati: 37.15011 -82.69544 West longi:

00029095 Akgwa numb: Water Well Site type: Primary us: 01-SEP-92 Domestic Constructi:

Site id: KY5000000025244

KY WELLS KY5000000025033

WNW 1/2 - 1 Mile

Lower

312769 Location i: North lati: 37.14649 West longi: -82.70577

Water Well Akgwa numb: 00053933 Site type: Primary us: Constructi: 24-JUN-00 Domestic

Site id: KY5000000025033

Map ID Direction Distance

Elevation Database **EDR ID Number**

D10 WNW 1/2 - 1 Mile **KY WELLS** KY5000000024992

Lower

Location i: 263455 North lati: 37.14571 -82.70649 West longi:

Water Well Akgwa numb: 00057351 Site type: Primary us: Domestic Constructi: 29-APR-02

Site id: KY5000000024992

C11 **KY WELLS** KY5000000025247

NNE 1/2 - 1 Mile

Lower Location i: 31560

North lati: 37.15011 West longi: -82.69432

Akgwa numb: 00004249 Site type: Water Well Primary us: 15-JAN-87 Domestic Constructi:

Site id: KY5000000025247

North **KY WELLS** KY5000000025269

1/2 - 1 Mile Lower

> Location i: 73348 North lati: 37.15038

West longi: -82.69571 Water Well Akgwa numb: Not Reported Site type: Primary us: 30-DEC-99 Domestic Constructi:

Site id: KY5000000025269

13 NNW **KY WELLS** KY5000000025234

1/2 - 1 Mile Lower

> Location i: 250224 North lati: 37.15011

West longi: -82.70043

Akgwa numb: 00049773 Site type: Water Well Constructi: 13-JUN-98 Primary us: Domestic

KY5000000025234 Site id:

NNE KY WELLS KY5000000025265

1/2 - 1 Mile Lower

Location i: 312757 North lati: 37.15032 West longi: -82.69421

Akgwa numb: 00053908 Site type: Water Well Primary us: Constructi: 18-FEB-00 Domestic

Site id: KY5000000025265

D15 NW **KY WELLS** KY5000000025059

1/2 - 1 Mile Lower

> 250097 Location i: North lati: 37.14699 West longi: -82.70621

Water Well Akgwa numb: 00050539 Site type: Primary us: Constructi: 01-JAN-00 Domestic

Site id: KY5000000025059

D16 KY5000000025073

NW 1/2 - 1 Mile Lower

Location i:

250098 North lati: 37.14732 West longi: -82.70605 Akgwa numb: 00050536

Water Well Site type: Primary us: Domestic Constructi: 01-MAY-73

Site id: KY5000000025073

E17

NW 1/2 - 1 Mile

KY5000000025150 **KY WELLS**

Lower

Location i: 250349 North lati: 37.14891 West longi: -82.70466

00050534 Akgwa numb: Water Well Site type: Primary us: 01-JAN-86 Domestic Constructi:

Site id: KY5000000025150

KY500000024690

West **KY WELLS**

1/2 - 1 Mile Lower

249487 Location i: North lati: 37.14038 West longi: -82.70849

Water Well Akgwa numb: 00048573 Site type: Primary us: Constructi: 19-SEP-97 Domestic

Site id: KY5000000024690 **KY WELLS**

Map ID Direction Distance

Elevation Database EDR ID Number

1/2 - 1 Mile Lower

 Location i:
 61095

 North lati:
 37.1452

 West longi:
 -82.70818

Akgwa numb:Not ReportedSite type:Water WellPrimary us:DomesticConstructi:30-DEC-99

Site id: KY5000000024962

E20

1/2 - 1 Mile Lower

> Location i: 73347 North lati: 37.14955

West longi: -82.70515

Akgwa numb: Not Reported Site type: Water Well Primary us: Domestic Constructi: 30-DEC-99

Site id: KY5000000025187

E21
NW FED USGS USGS40000380388

1/2 - 1 Mile Lower

Org. Identifier: USGS-KY

Formal name: USGS Kentucky Water Science Center

Monloc Identifier: USGS-370858082421901

Monloc name: I29A0037 Monloc type: Well

Monloc desc: Not Reported

Huc code: 05100201 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported 37.1495463 Contrib drainagearea units: Not Reported Latitude: Longitude: -82.7051575 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 1320.00 Vert measure units: Vertacc measure val: 20

Vert accmeasure units: feet

Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Not Reported
Formation type: Breathitt Formation
Aquifer type: Not Reported

Construction date: Not Reported Welldepth: 9
Welldepth units: ft Wellholedepth: 9

Wellholedepth units: ft

KY WELLS

KY5000000025187

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1960-07-21 5.39

E22 **KY WELLS** KY5000000025186

1/2 - 1 Mile Lower

> Location i: 316549 North lati: 37.14955 West longi: -82.70516

Akgwa numb: Not Reported Site type: Water Well Primary us: Unknown Constructi: 30-DEC-99

Site id: KY5000000025186

NW **KY WELLS** KY5000000025317

1/2 - 1 Mile Lower

> Location i: 41844 North lati: 37.15122

West longi: -82.70544

Akgwa numb: 00019270 Water Well Site type: Primary us: Domestic Constructi: 09-AUG-91

Site id: KY5000000025317

24 NNW

1/2 - 1 Mile

Lower

Location i: 39540 North lati: 37.15371 West longi: -82.70182

Akgwa numb: 00018061 Site type: Water Well 07-SEP-90 Primary us: Constructi: Domestic

KY5000000025466 Site id:

NW **KY WELLS** KY5000000025178 1/2 - 1 Mile

Lower

Location i: 267893 North lati: 37.14955 West longi: -82.7096

Akgwa numb: 00058596 Site type: Water Well Primary us: Domestic Constructi: 13-SEP-02

KY5000000025178 Site id:

KY WELLS

KY5000000025466

Map ID Direction Distance

Elevation Database EDR ID Number

F26
NNW
KY WELLS KY500000025430

1/2 - 1 Mile Lower

 Location i:
 33363

 North lati:
 37.15316

 West longi:
 -82.7046

Akgwa numb:00006625Site type:Water WellPrimary us:DomesticConstructi:11-NOV-87

Site id: KY5000000025430

NNW KY WELLS KY500000025467

1/2 - 1 Mile Lower

Location i: 248649

North lati: 37.15377

North latt: 37.15377
West longi: -82.70371

Akgwa numb:00050549Site type:Water WellPrimary us:DomesticConstructi:05-OCT-98

Site id: KY500000025467

G28
NNW
KY WELLS
KY5000000025486

1/2 - 1 Mile Lower

 Location i:
 316553

 North lati:
 37.15399

 West longi:
 -82.70349

Akgwa numb: Not Reported Site type: Water Well Primary us: Unknown Constructi: 30-DEC-99

Site id: KY5000000025486

G29 NNW KY WELLS KY500000025487

1/2 - 1 Mile Lower

1/2 - 1 Mile Lower

 Location i:
 73352

 North lati:
 37.15399

 West longi:
 -82.70349

Akgwa numb:Not ReportedSite type:Water WellPrimary us:DomesticConstructi:30-DEC-99

Site id: KY5000000025487

G30
NNW
FED USGS USGS40000380432

TC4327237.23s Page A-19

Org. Identifier: USGS-KY

Formal name: USGS Kentucky Water Science Center

Monloc Identifier: USGS-370914082421301

Monloc name: I29A0045 Monloc type: Well Monloc desc: Not Reported

Huc code: 05100201 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported 37.1539908 Latitude: -82.7034907 24000 Longitude: Sourcemap scale: Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

Horiz coord refsys: NAD83 Vert measure val: 1400.00 Vert measure units: feet Vertacc measure val: 20

Vert accmeasure units: feet
Vertcollection method: Interpolated from topographic map

Vert coord refsys: NGVD29 Countrycode: US

Aquifername: Not Reported
Formation type: Breathitt Formation
Aquifer type: Not Reported

Construction date: Not Reported Welldepth: Not Reported Welldepth units: Not Reported Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

1/2 - 1 Mile Lower

 Location i:
 243791

 North lati:
 37.15399

 West longi:
 -82.70377

Akgwa numb: Not Reported Site type: Water Well Primary us: Domestic Constructi: 30-DEC-99

Site id: KY5000000025485

32 WSW KY WELLS KY500000024560

1/2 - 1 Mile Lower

 Location i:
 35628

 North lati:
 37.13788

 West longi:
 -82.71377

Akgwa numb:00012573Site type:Water WellPrimary us:DomesticConstructi:23-AUG-88

Site id: KY5000000024560

Map ID Direction Distance

Database EDR ID Number

A1 NNE OIL_GAS KYOG11000120393 1/8 - 1/4 Mile

Kgs recno: Api: 16133017890000 139017 Letter: Η Number: 82 9 1826 Section: Fns: 1245 Ν Few: Ns: W 1653 Ew: Surf elev: Usgs quad: JENKINS WEST County: **LETCHER**

Org farm: **EQT PRODUCTION COMPANY EQT PRODUCTION COMPANY** Org oper:

Org wellno: 569734 Td: 0

Tdfm: 000 341CLVD Deepst pay: lof ip: Not Reported Org wclass: UNC Cmpl date: Org result: TRM 30-DEC-99 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0 Elog: Not Reported Plotsymbol: TRM

Kgs permit: 106534 Bore type: Н Rec lat27: 37.14498 Rec Ing27: -82.69573 Rec lat83: 37.144985

KYOG11000120393 Rec Ing83: -82.695729 Site id:

NNE OIL_GAS KYOG11000120394 1/8 - 1/4 Mile

Kgs recno: Api: 16133017900000 139018 Letter: Н Number: 82 Fns: 1803 Section: 9 Ns: Ν Few: 1241 Ew: W Surf elev: 1654 County: **LETCHER**

Usgs quad: JENKINS WEST Org farm: **EQT PRODUCTION COMPANY** Org oper: **EQT PRODUCTION COMPANY**

Org wellno: 569733 0 Td:

Tdfm: 000 341HURN Deepst pay: lof ip: Not Reported Org wclass: UNC Org result: TRM Cmpl date: 30-DEC-99 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: Not Reported TRM Elog: Plotsymbol: Kgs permit: 106533 Bore type: Н

37.14505 Rec lat27: Rec Ing27: -82.69574 Rec lat83: 37.145048

Rec Ing83: -82.695743 Site id: KYOG11000120394

Map ID Direction Distance

stance Database EDR ID Number

3 WNW OIL_GAS KYOG11000105654 1/4 - 1/2 Mile

Api: 16133006140000 Kgs recno: 123210 Letter: Н Number: 82 8 2518 Section: Fns: Ν 821 Ns: Few: Ew: Ε Surf elev: 1630 Usgs quad: JENKINS WEST County: **LETCHER**

Org farm: PIKE-LETCHER LAND COMPANY

Org oper: KINZER, J W

Org wellno: Td: 4465 1115 Tdfm: 3410HIO 340BBSI Deepst pay: lof ip: Not Reported Org wclass: DEV Org result: Cmpl date: 22-OCT-01 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: FDC Plotsymbol: GAS

Kgs permit: 92316

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/3/R00123210/R00123210.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

1/4 - 1/2 Mile

 Rec lat27:
 37.143084

 Rec lng27:
 -82.702816

 Rec lat83:
 37.143186

Rec Ing83: -82.702696 Site id: KYOG11000105654

4 SSW OIL_GAS KYOG11000105748

16133006150000 123304 Api: Kgs recno: Letter: Η Number: 82 Section: 8 Fns: 1148 Ns: S Few: 184 Ew: Ε Surf elev: 2032 JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: PIKE-LETCHER LAND COMPANY

Org oper: KINZER, J W

Org wellno: 4856 1116 Tdfm: 3410HIO Deepst pay: 3410HIO lof ip: Not Reported Org wclass: EXT Org result: Cmpl date: 27-OCT-01 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: FDC Plotsymbol: GAS

Kgs permit: 92317

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/3/R00123304/R00123304.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.136486 Rec lng27: -82.700631

Rec lat83: 37.136588 Rec lng83: -82.700511

Rec Ing83: -82.700511 Site id: KYOG11000105748

OIL_GAS KYOG11000119988
1/4 - 1/2 Mile

16133017360000 138478 Api: Kgs recno: Number: Letter: Н 82 Section: 9 Fns: 1661 Ns: Ν Few: 1976 Ε Surf elev: 1448 Ew: JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: EQT PRODUCTION COMPANY
Org oper: EQT PRODUCTION COMPANY

Org wellno: 569297 Td: 4113 Tdfm: 341HURN 000 Deepst pay: Org wclass: UNC lof ip: Not Reported Org result: GAS Cmpl date: 30-DEC-99 Plug date: 30-DEC-99 Plug afdvt: Not Reported Core: Not Reported Cuttings: 16168 Not Reported Elog: Plotsymbol: GAS

 Kgs permit:
 106141

 Bore type:
 H

 Rec lat27:
 37.14544

 Rec lng27:
 -82.69011

 Rec lat83:
 37.145438

Rec Ing27:

Rec Ing83: -82.690112 Site id: KYOG11000119988

B6
ENE OIL_GAS KYOG11000119989
1/4 - 1/2 Mile

16133017370000 138479 Api: Kgs recno: Letter: Н Number: 82 Section: 9 Fns: 1663 Ns: Ν Few: 1951 Ε Surf elev: 1448 Ew: JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: EQT PRODUCTION COMPANY
Org oper: EQT PRODUCTION COMPANY

-82.69003

Org wellno: 569298 3682 Tdfm: 000 Deepst pay: 341CLVD lof ip: Not Reported Org wclass: UNC Cmpl date: 30-DEC-99 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: Not Reported Plotsymbol: GAS
Kgs permit: 106142
Bore type: H
Rec lat27: 37.14543

Rec lat83: 37.145433 Rec lng83: -82.690026

Rec lng83: -82.690026 Site id: KYOG11000119989

/ NE OIL_GAS KYOG11000091067 1/2 - 1 Mile

16133003960000 102990 Kgs recno: Api: Letter: Н Number: 82 Section: 9 Fns: 1070 Ns: Ν Few: 1710 Ε Surf elev: 1633 Ew: JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: EREX (SAM WRIGHT)

Org oper: EQUITABLE RESOURCES EXPL, INC

Org wellno: 3418 KF1977 Td: Tdfm: Deepst pay: 332BIGL 337BRDN lof ip: 70 MCFGPD Org wclass: DEV Org result: O&G Cmpl date: 26-MAR-91 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 644
Elog: DIL Plotsymbol: O&G

Kgs permit: 81334

Images: http://kgs.uky.edu/oilgasimages/0/0/1/0/2/R00102990/R00102990.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.147061

 Rec lng27:
 -82.689198

 Rec lat83:
 37.147163

Rec Ing83: -82.689077 Site id: KYOG11000091067

8 WNW OIL_GAS KYOG11000012178 1/2 - 1 Mile

Api: 16133008090000 Kgs recno: 12421 Letter: Η Number: 82 8 1050 Section: Fns: 2375 Ns: Ν Few: W Ew: Surf elev: 1587 JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: ELKHORN COAL CO, INC

Org oper: KENTUCKY WEST VIRGINIA GAS CO

Org wellno: 4399 1743 Td: 344CORN Tdfm: Deepst pay: 000 lof ip: Not Reported Org wclass: DEV Cmpl date: 23-DEC-80 Org result: D&A 30-DEC-99 Plug date: Plug afdvt: PΑ Core: Not Reported Cuttings: 14306 **FDC** Plotsymbol: D&A Elog:

Kgs permit: 37657

Images: http://kgs.uky.edu/oilgasimages/0/0/0/1/2/R00012421/R00012421.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.147116 Rec lng27: -82.708519

Rec lat83: 37.147218 Rec lng83: -82.708399

Rec Ing83: -82.708399 Site id: KYOG11000012178

OIL_GAS KYOG11000121034 1/2 - 1 Mile

139658 16133018400000 Api: Kgs recno: Number: Letter: Н 82 Section: 9 Fns: 1036 Ns: Ν Few: 534 Ε Surf elev: 1016 Ew: JENKINS WEST **LETCHER** County:

Usgs quad: JENKINS WEST
Org farm: EQT PRODUCTION COMPANY
Org oper: EQT PRODUCTION COMPANY

Org wellno: 570817 Td: 0 Tdfm: 000 000 Deepst pay: Org wclass: UNC lof ip: Not Reported Org result: TRM Cmpl date: 30-DEC-99 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0

Elog: Not Reported Plotsymbol: TRM

Kgs permit: 107183

 Bore type:
 H

 Rec lat27:
 37.14715

 Rec lng27:
 -82.68517

 Rec lat83:
 37.147155

Rec Ing83: -82.685165 Site id: KYOG11000121034

C10
ENE OIL_GAS KYOG11000121035
1/2 - 1 Mile

16133018410000 139659 Api: Kgs recno: Letter: Н Number: 82 Section: 9 Fns: 1031 Ns: Ν Few: 512 Ε Surf elev: 1611 Ew: JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: **EQT PRODUCTION COMPANY** Org oper: **EQT PRODUCTION COMPANY** Org wellno: 570818 0 000 Tdfm: 000 Deepst pay: lof ip: Not Reported Org wclass: UNC Org result: Cmpl date: 30-DEC-99 TRM

Plug date:30-DEC-99Plug afdvt:Not ReportedCore:Not ReportedCuttings:0Elog:Not ReportedPlotsymbol:TRM

 Kgs permit:
 107184

 Bore type:
 H

 Rec lat27:
 37.14717

 Rec lng27:
 -82.68509

Rec lat83: 37.147168

Rec lng83: -82.68509 Site id: KYOG11000121035

11
NNE OIL_GAS KYOG11000091066
1/2 - 1 Mile

102989 16133003950000 Api: Kgs recno: Letter: Н Number: 82 Section: 2 Fns: 1025 Ns: S Few: 2220 Е Surf elev: 1629 Ew: JENKINS WEST **LETCHER** Usgs quad: County:

Org farm: EREX (SAM WRIGHT)

Org oper: EQUITABLE RESOURCES EXPL, INC

Org wellno: 3352 KF1976 Td: Tdfm: **337BRDN** Deepst pay: 332BIGL Org wclass: DEV lof ip: 762 MCFGPD Org result: GAS Cmpl date: 10-MAY-91 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 647
Elog: DIL Plotsymbol: GAS

Kgs permit: 81333

Images: http://kgs.uky.edu/oilgasimages/0/0/1/0/2/R00102989/R00102989.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.152815

 Rec lng27:
 -82.69095

 Rec lat83:
 37.152917

Rec Ing83: -82.690829 Site id: KYOG11000091066

D12
ENE OIL_GAS KYOG11000121777
1/2 - 1 Mile

Api: 16133018600000 Kgs recno: 140440 Letter: Н Number: 82 10 600 Section: Fns: 588 Ns: Ν Few: W 1841 Ew: Surf elev: Usgs quad: JENKINS WEST **LETCHER** County:

Org farm: EQT PRODUCTION COMPANY
Org oper: EQT PRODUCTION COMPANY

Org wellno: 570820 Td: 9615 000 Tdfm: 341HURNL Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 31-JAN-11 Org result: GAS 30-DEC-99 Not Reported Plug date: Plug afdvt: Core: Not Reported Cuttings: 16241 Not Reported Plotsymbol: GAS Elog:

 Kgs permit:
 107419

 Bore type:
 H

 Rec lat27:
 37.14835

 Rec lng27:
 -82.68132

Rec lat83: 37.148352

Rec Ing83: -82.681316 Site id: KYOG11000121777

D13
ENE OIL_GAS KYOG11000121778
1/2 - 1 Mile

16133018610000 140441 Kgs recno: Api: Letter: Number: 82 Н Section: 10 Fns: 597 Ns: Ν Few: 572 W 1842 Ew: Surf elev: LETCHER

Usgs quad: JENKINS WEST County:
Org farm: EQT PRODUCTION COMPANY
Org oper: EQT PRODUCTION COMPANY

Td: 9337 Org wellno: 570819 Tdfm: 341CLVD Deepst pay: 000 lof ip: Not Reported Org wclass: DEV Org result: GAS Cmpl date: 31-JAN-11 Plug date: 30-DEC-99 Plug afdvt: Not Reported 16236 Core: Not Reported Cuttings: Elog: Not Reported Plotsymbol: GAS

 Kgs permit:
 107418

 Bore type:
 H

 Rec lat27:
 37.14836

 Rec lng27:
 -82.68137

 Rec lat83:
 37.148462

Rec Ing83: -82.681249 Site id: KYOG11000121778

AREA RADON INFORMATION

Federal EPA Radon Zone for LETCHER County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LETCHER COUNTY, KY

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.400 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet

Telephone: 502-564-5174

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey

Telephone: 859-257-5500

Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations

Source: Kentucky Geological Survey

Telephone: 859-257-5500

Oil and gas well locations in the state of Kentucky

RADON

State Database: KY Radon

Source: Department of Public Health

Telephone: 502-564-4856 Radon Test Results

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix D: Topographic Maps

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Paynes Gap

199 County Road 1417 Mayking, KY 41837

Inquiry Number: 4327237.25

June 16, 2015

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

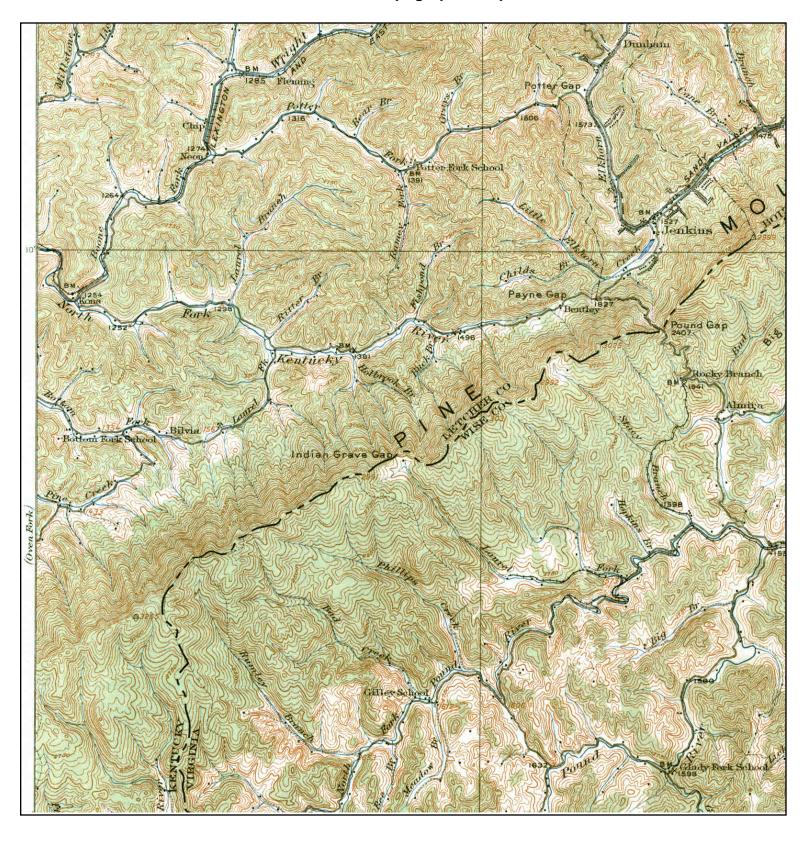
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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TARGET QUAD NAME: POUND

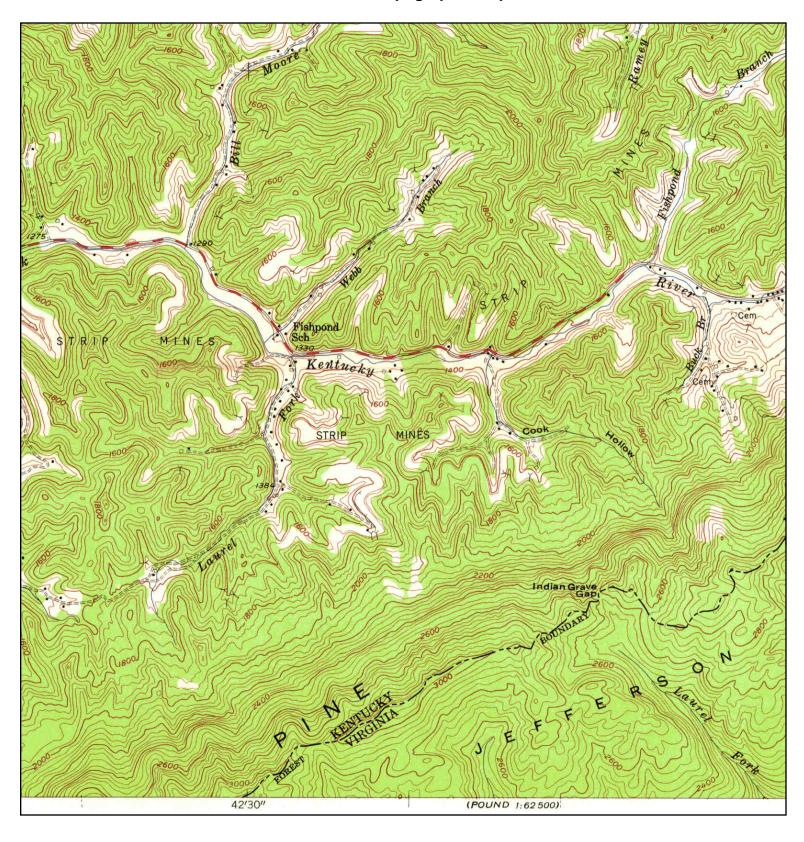
MAP YEAR: 1914

SERIES: 15 SCALE: 1:62500 SITE NAME: Paynes Gap

ADDRESS: 199 County Road 1417

Mayking, KY 41837

LAT/LONG: 37.1421 / -82.6972





TARGET QUAD

NAME: JENKINS WEST

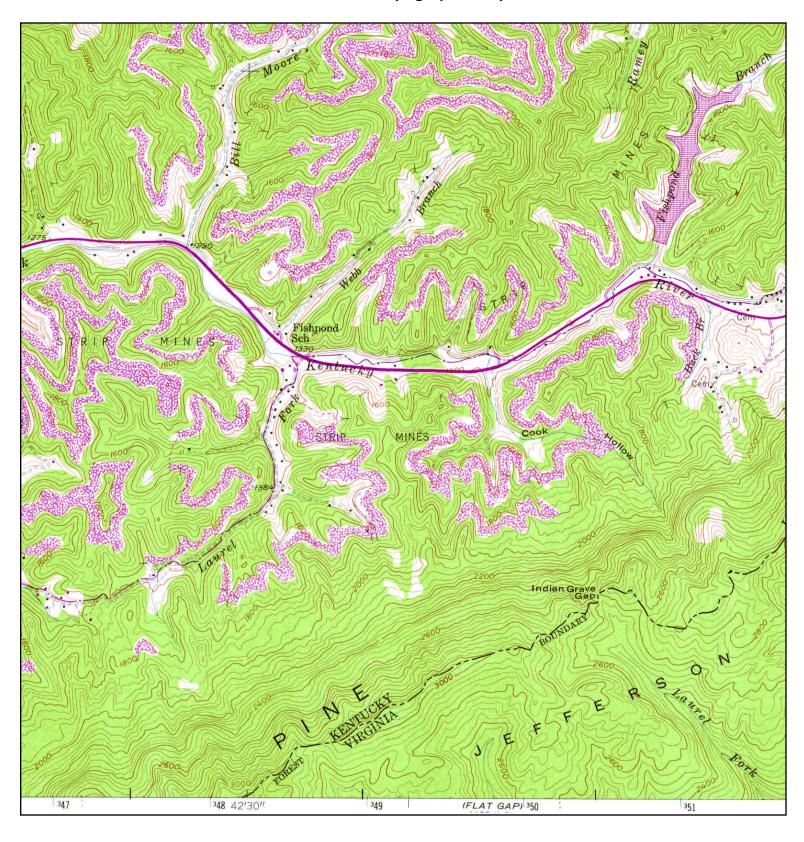
MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Paynes Gap

ADDRESS: 199 County Road 1417

Mayking, KY 41837

LAT/LONG: 37.1421 / -82.6972





TARGET QUAD

NAME: JENKINS WEST

MAP YEAR: 1979

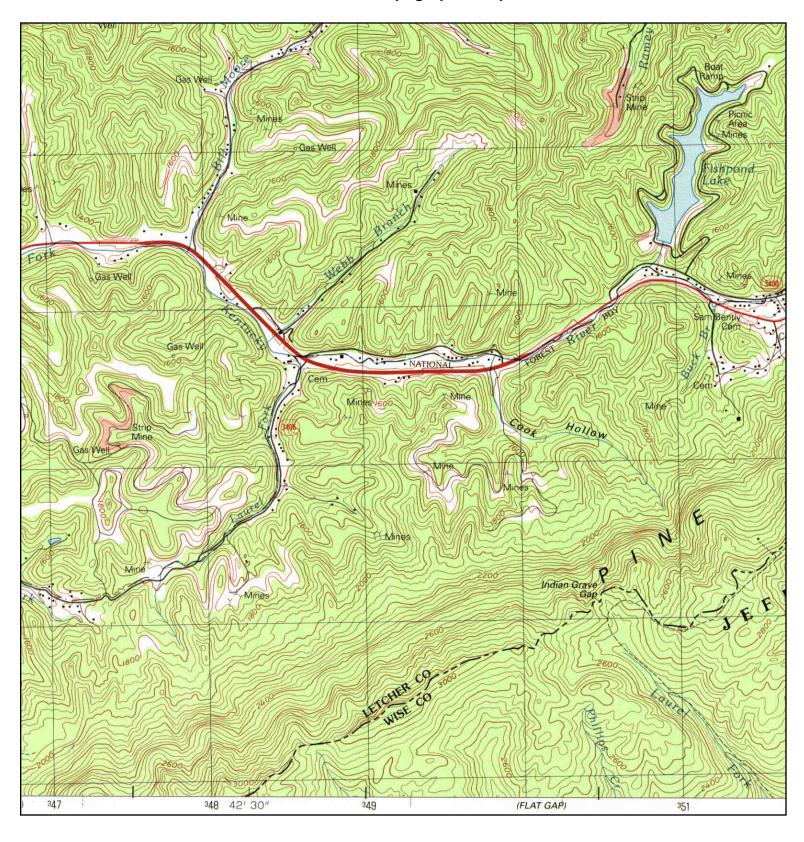
PHOTOREVISED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Paynes Gap

ADDRESS: 199 County Road 1417

Mayking, KY 41837

LAT/LONG: 37.1421 / -82.6972





TARGET QUAD

NAME: JENKINS WEST

MAP YEAR: 1992

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Paynes Gap

ADDRESS: 199 County Road 1417

Mayking, KY 41837

LAT/LONG: 37.1421 / -82.6972

Appendix E: Aerial Photographs

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Paynes Gap

199 County Road 1417 Mayking, KY 41837

Inquiry Number: 4327237.34

June 23, 2015

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography June 23, 2015

Target Property:

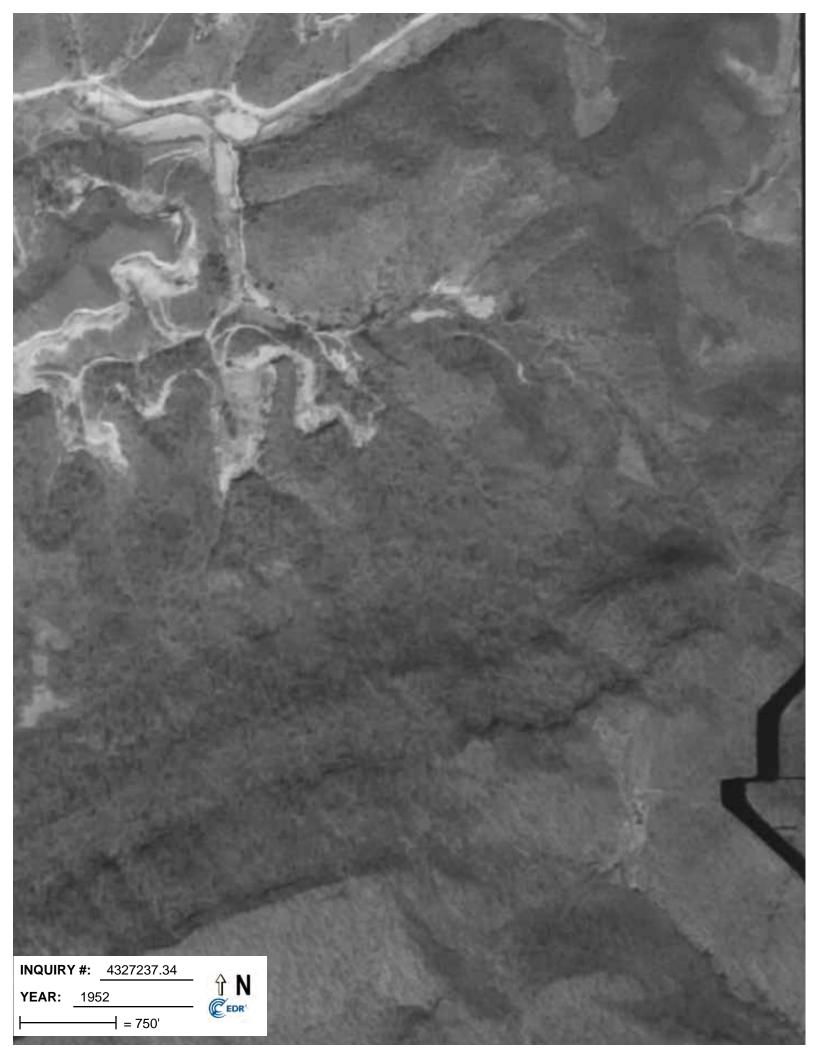
199 County Road 1417 Mayking, KY 41837

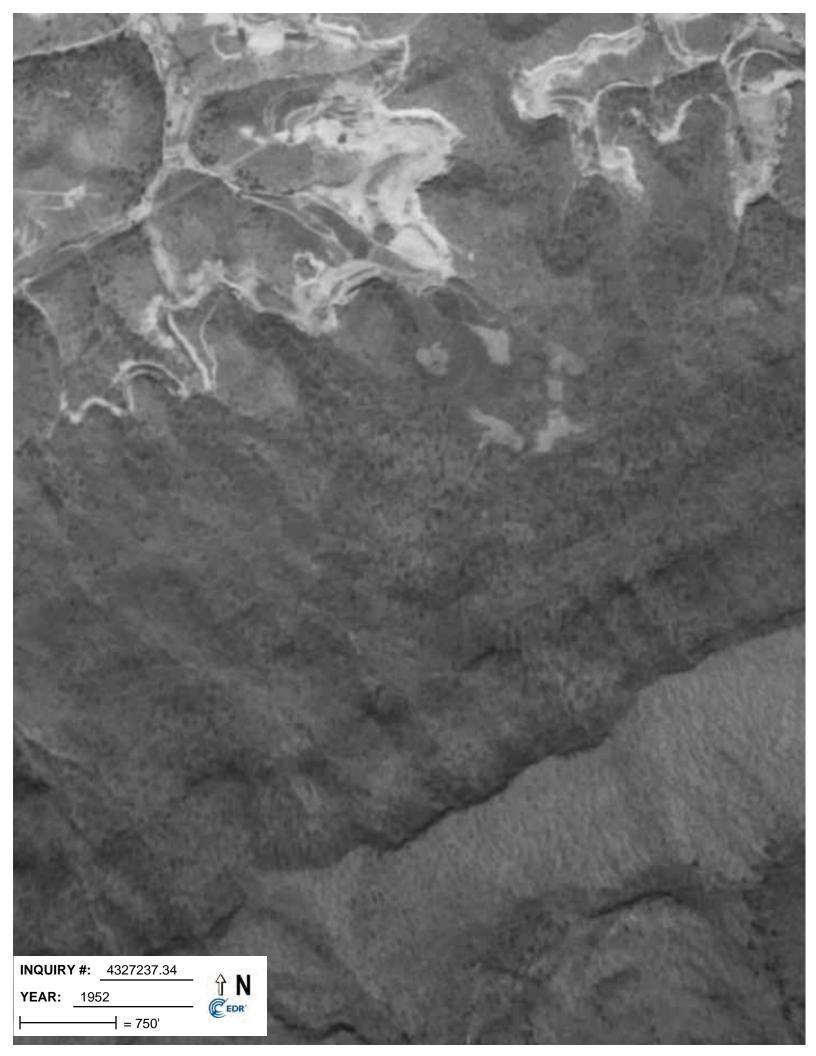
<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=750'	Flight Date: April 08, 1952	EDR
1952	Aerial Photograph. Scale: 1"=750'	Flight Date: April 08, 1952	EDR
1952	Aerial Photograph. Scale: 1"=750'	Flight Date: April 08, 1952	EDR
1961	Aerial Photograph. Scale: 1"=750'	Flight Date: April 19, 1961	EDR
1961	Aerial Photograph. Scale: 1"=750'	Flight Date: April 19, 1961	EDR
1975	Aerial Photograph. Scale: 1"=1000'	Flight Date: May 01, 1975	EDR
1975	Aerial Photograph. Scale: 1"=1000'	Flight Date: May 01, 1975	EDR
1979	Aerial Photograph. Scale: 1"=1000'	Flight Date: December 04, 1979	EDR
1979	Aerial Photograph. Scale: 1"=1000'	Flight Date: December 04, 1979	EDR
1988	Aerial Photograph. Scale: 1"=750'	Flight Date: March 28, 1988	EDR
1988	Aerial Photograph. Scale: 1"=750'	Flight Date: March 28, 1988	EDR
1988	Aerial Photograph. Scale: 1"=750'	Flight Date: March 28, 1988	EDR
1995	Aerial Photograph. Scale: 1"=750'	Flight Date: March 24, 1995	EDR
1995	Aerial Photograph. Scale: 1"=750'	Flight Date: March 24, 1995	EDR
1995	Aerial Photograph. Scale: 1"=750'	Flight Date: March 24, 1995	EDR
2000	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 05, 2000	USGS/DOQQ
2000	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 05, 2000	USGS/DOQQ
2000	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 05, 2000	USGS/DOQQ
2000	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 05, 2000	USGS/DOQQ

Year 2000	Scale Aerial Photograph. Scale: 1"=500'	Details DOQQ - acquisition dates: April 05, 2000	Source USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP

Year 2011	Scale Aerial Photograph. Scale: 1"=500'	Details Flight Year: 2011	Source USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

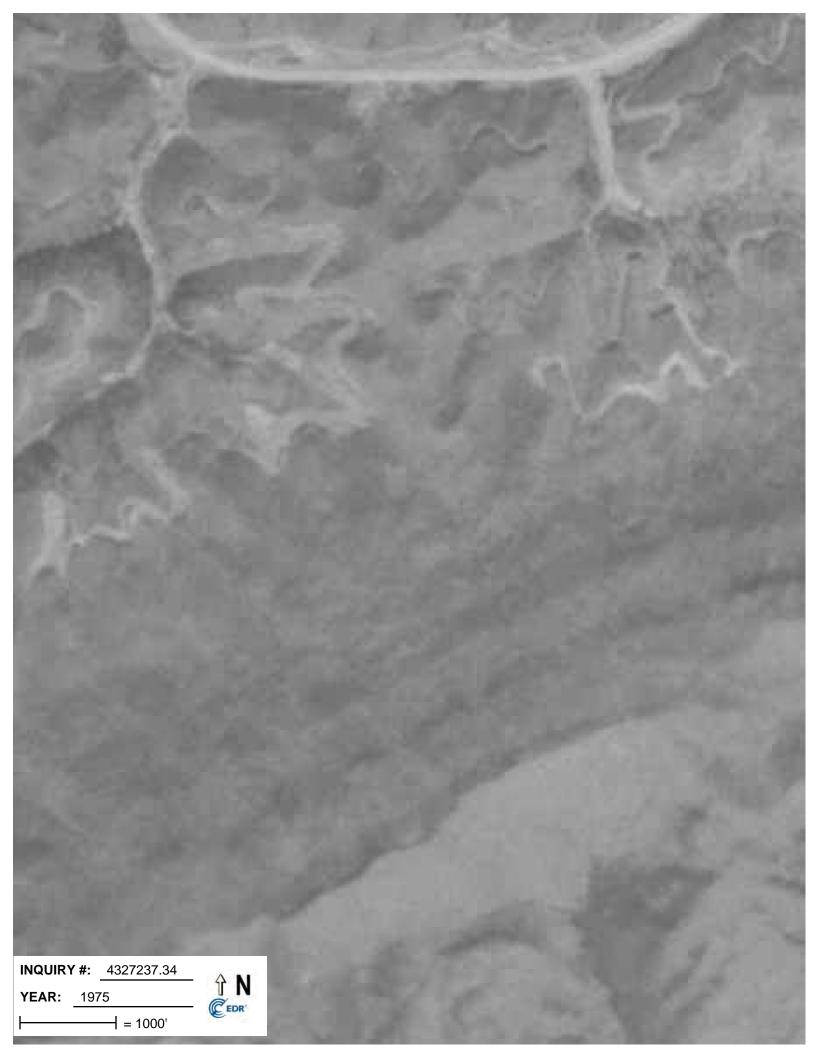




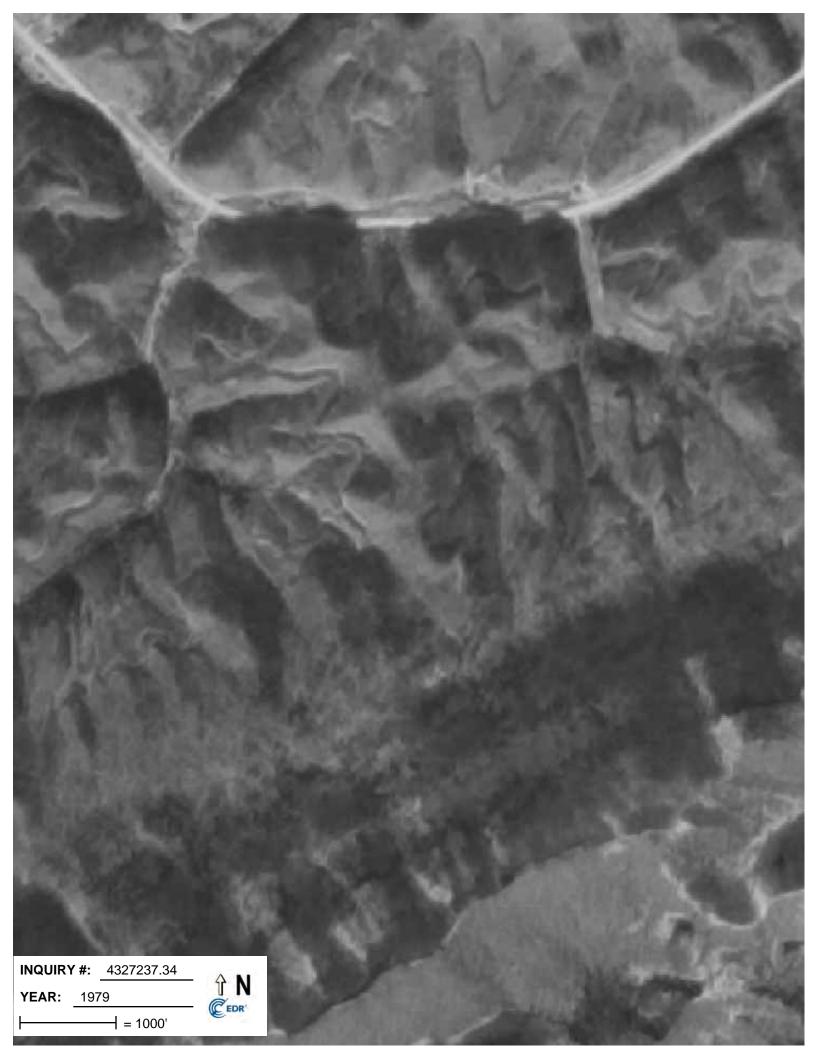


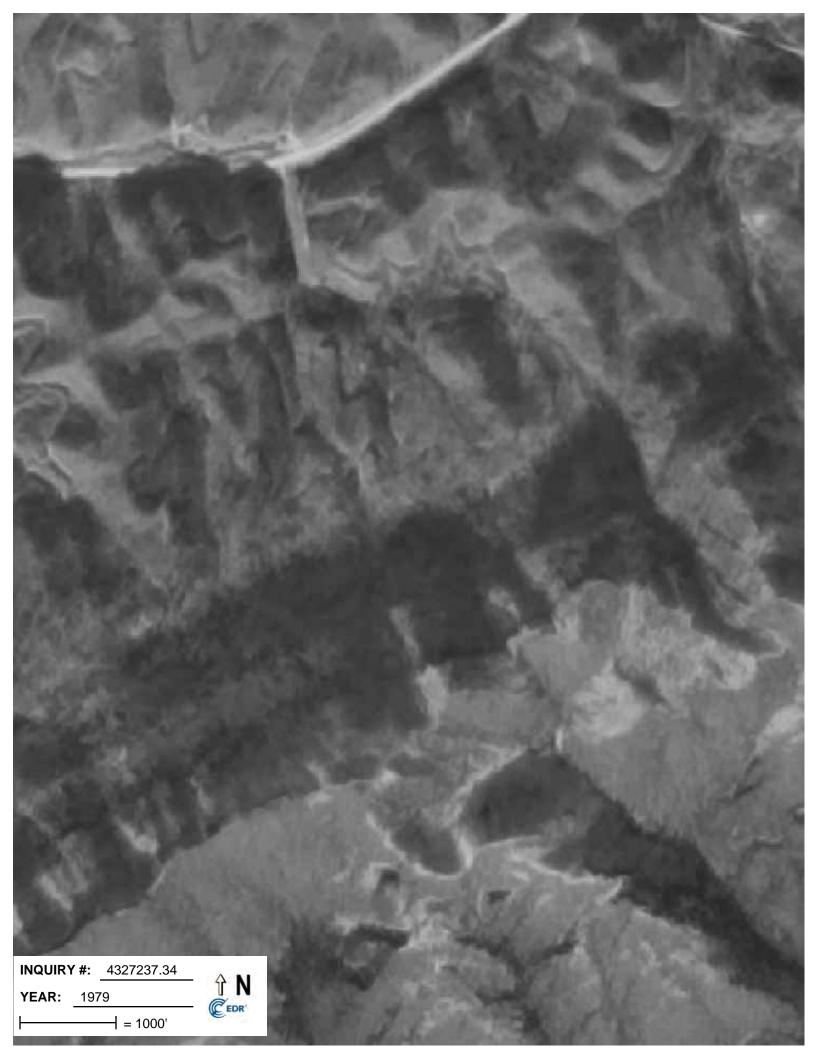




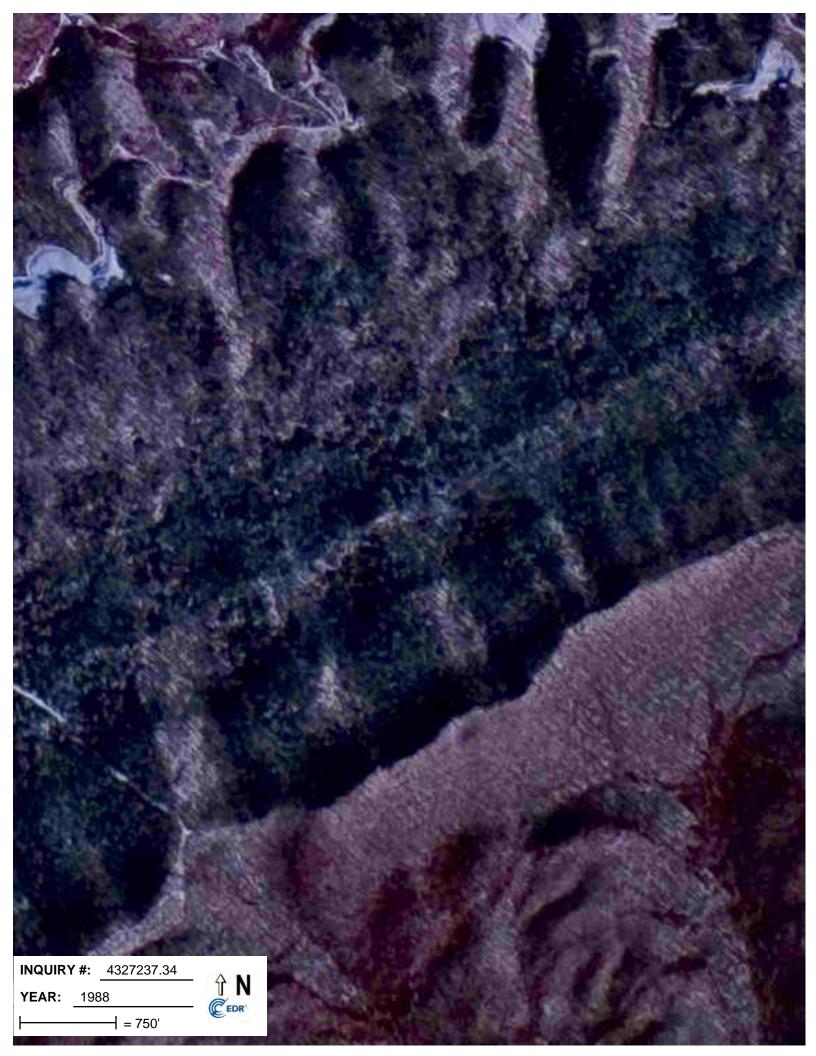


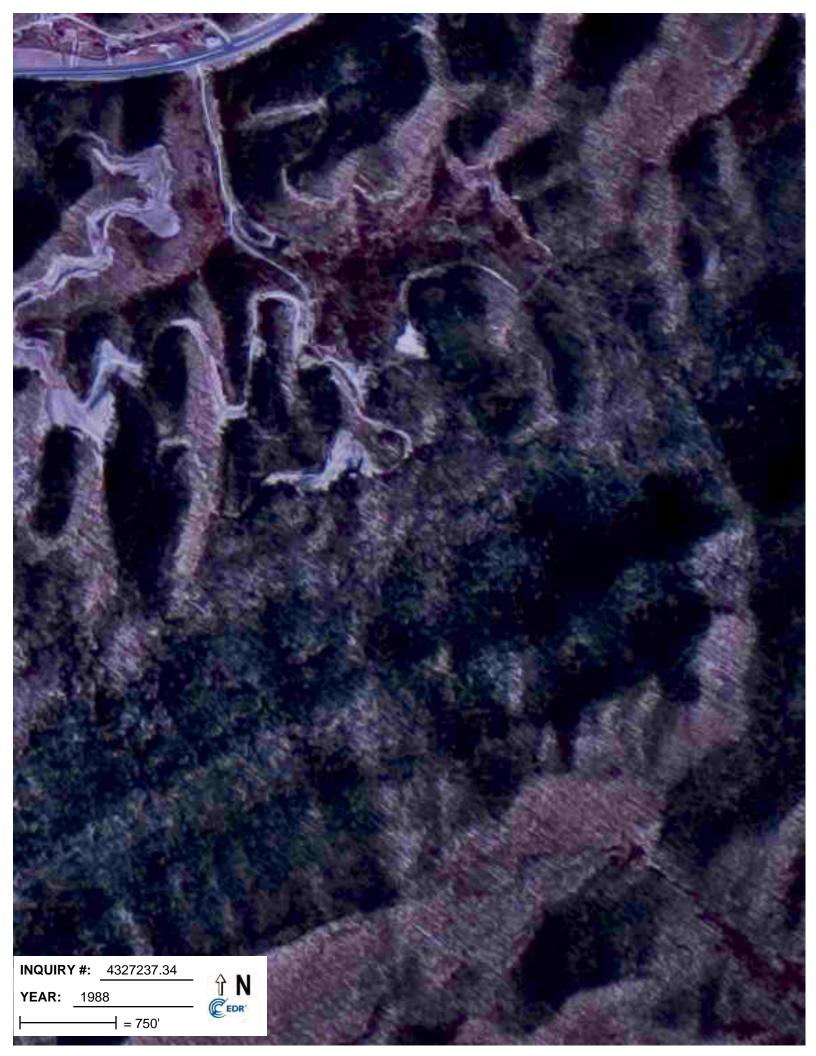






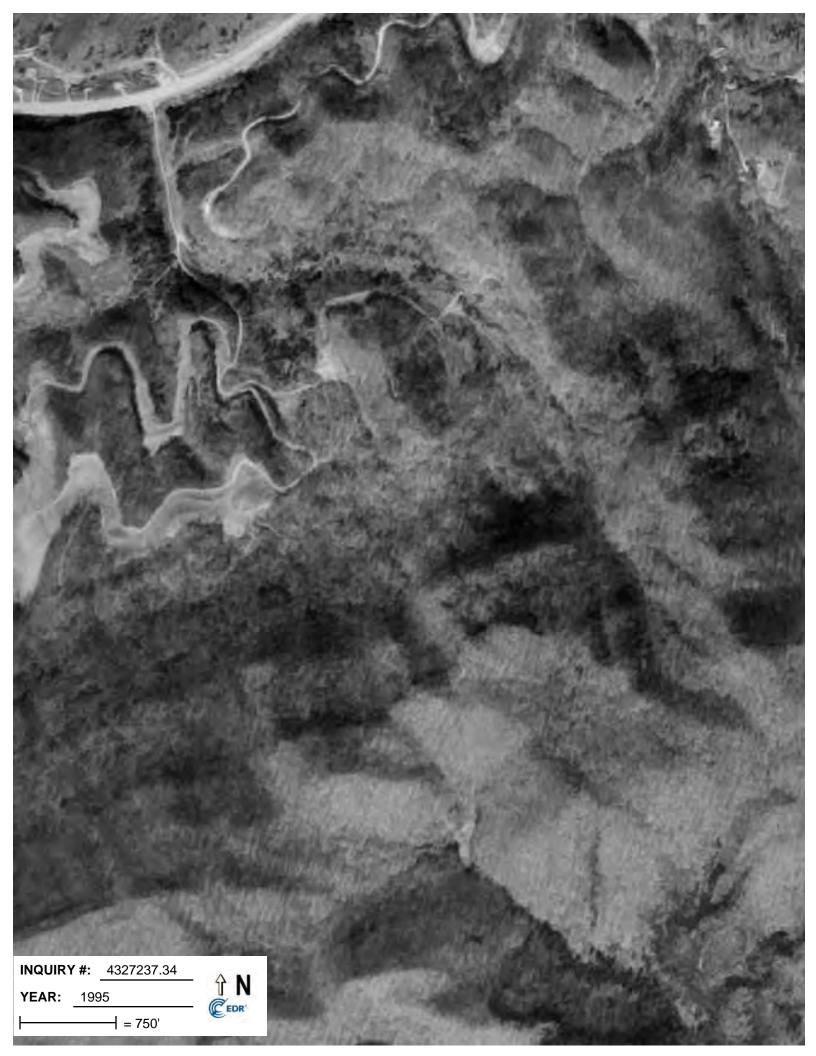


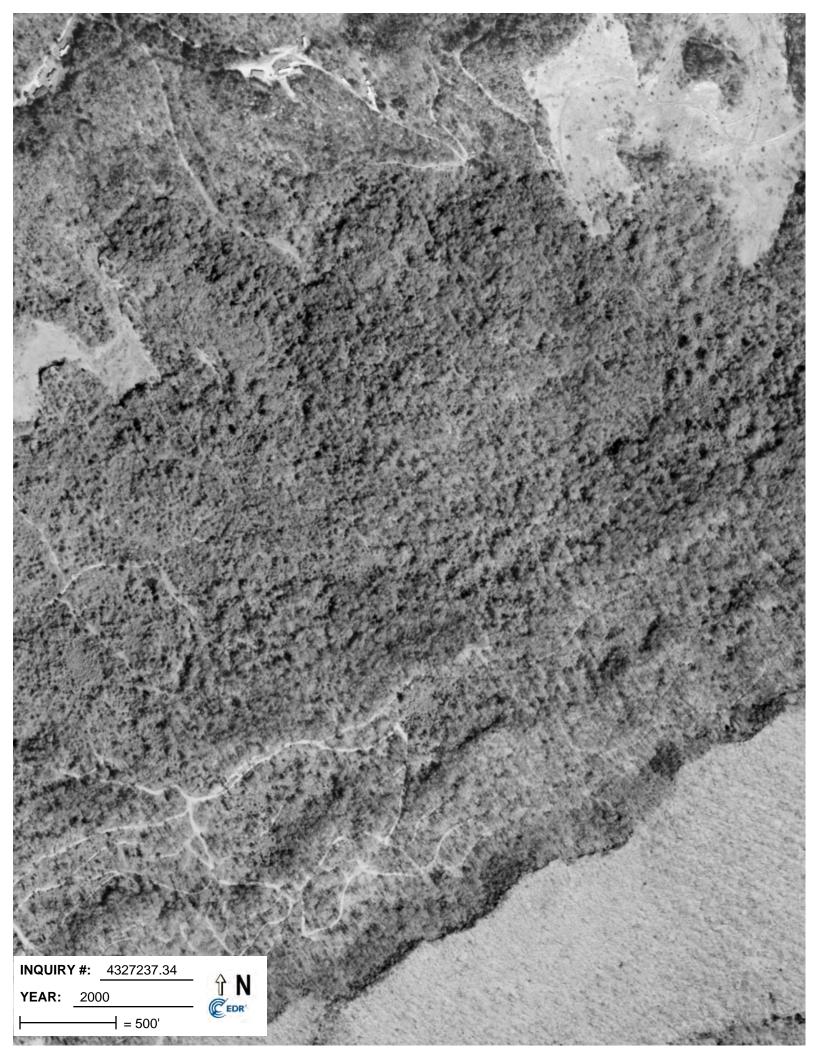




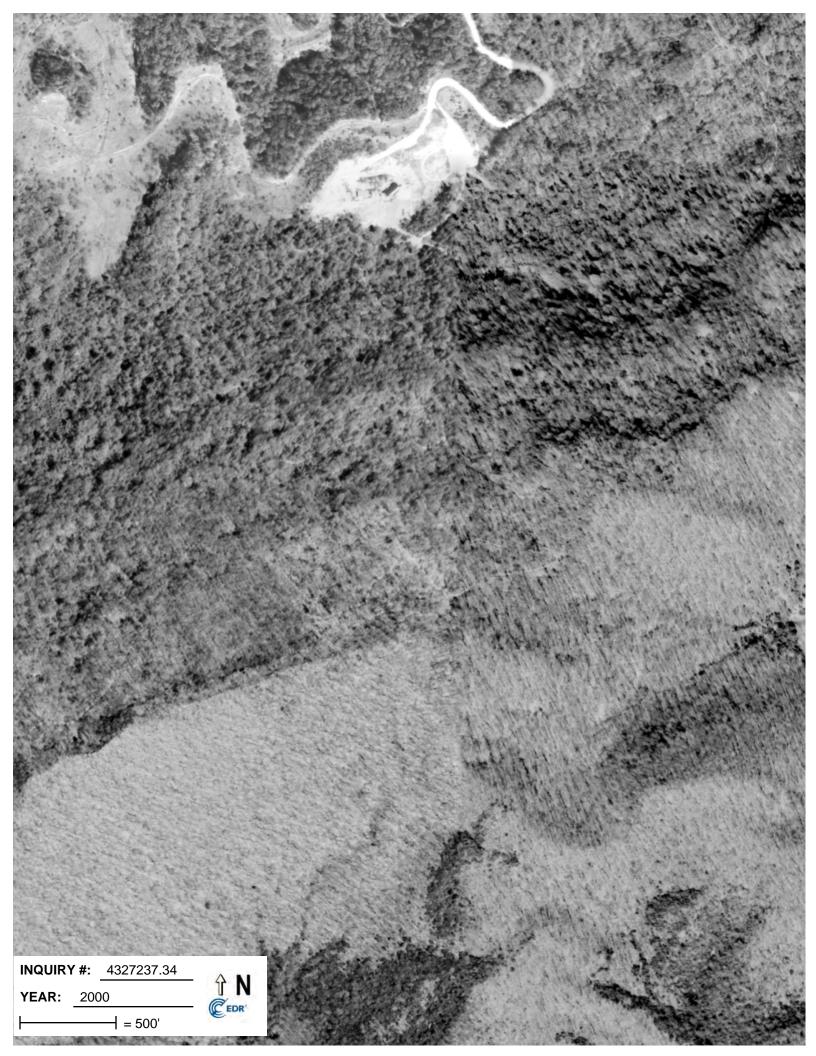






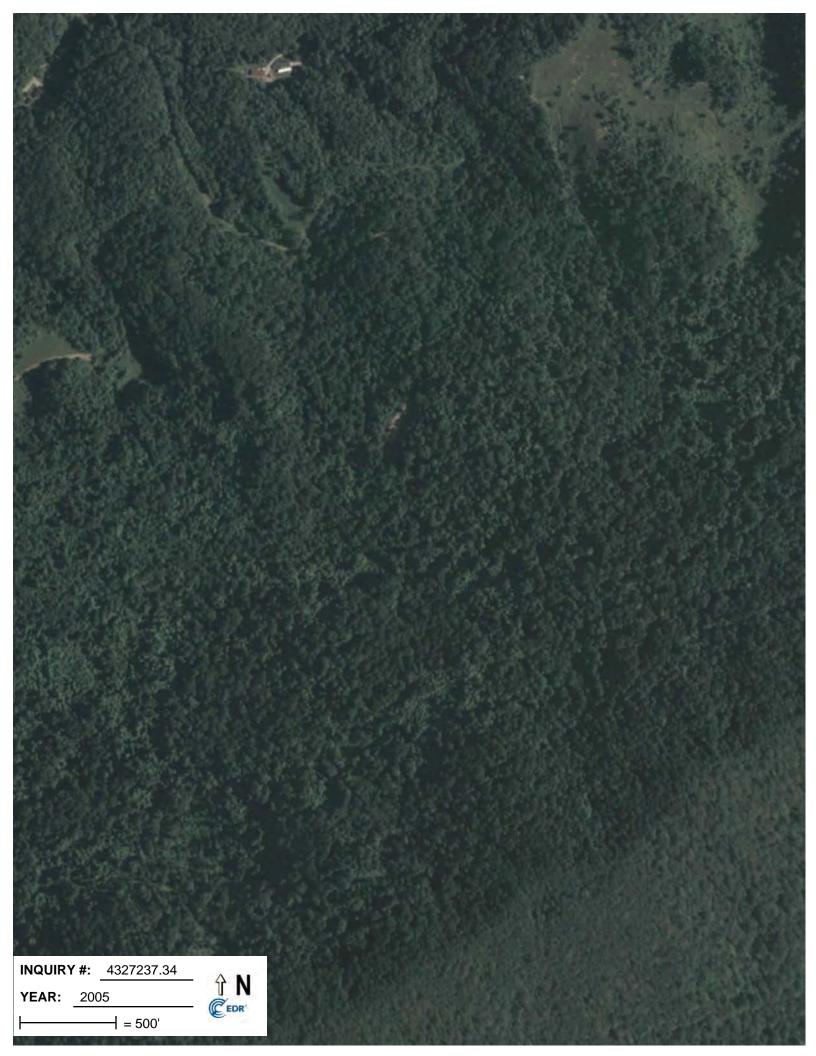




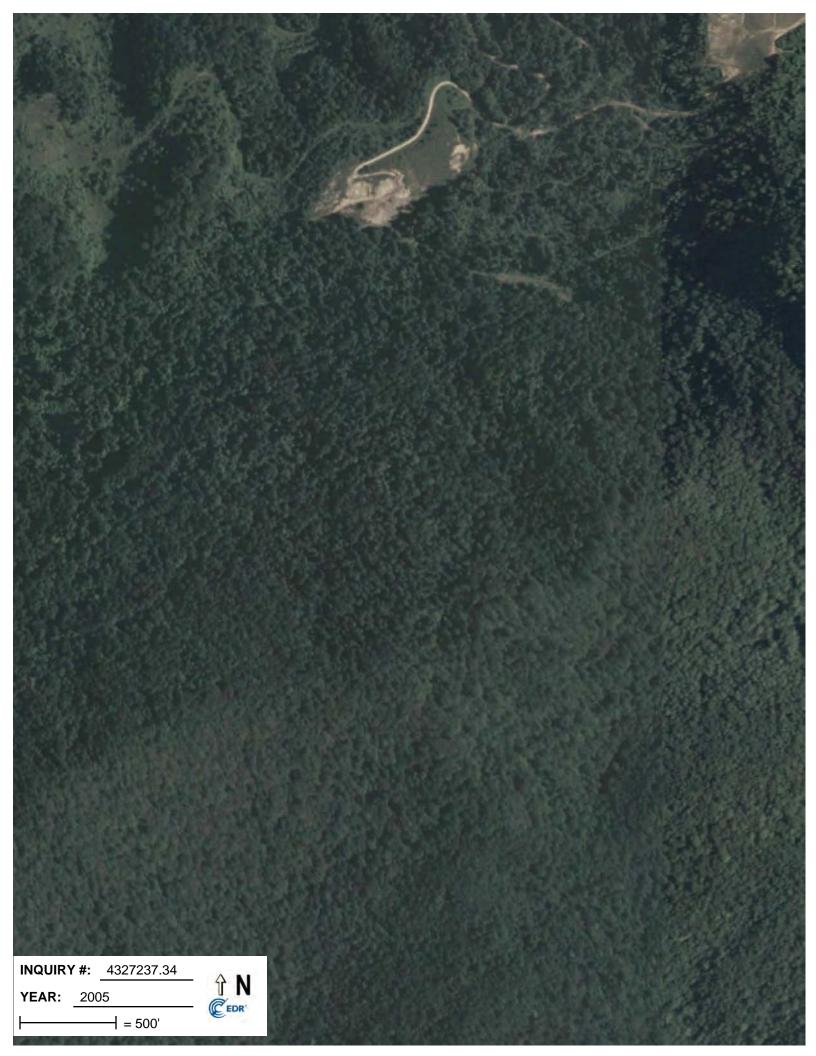


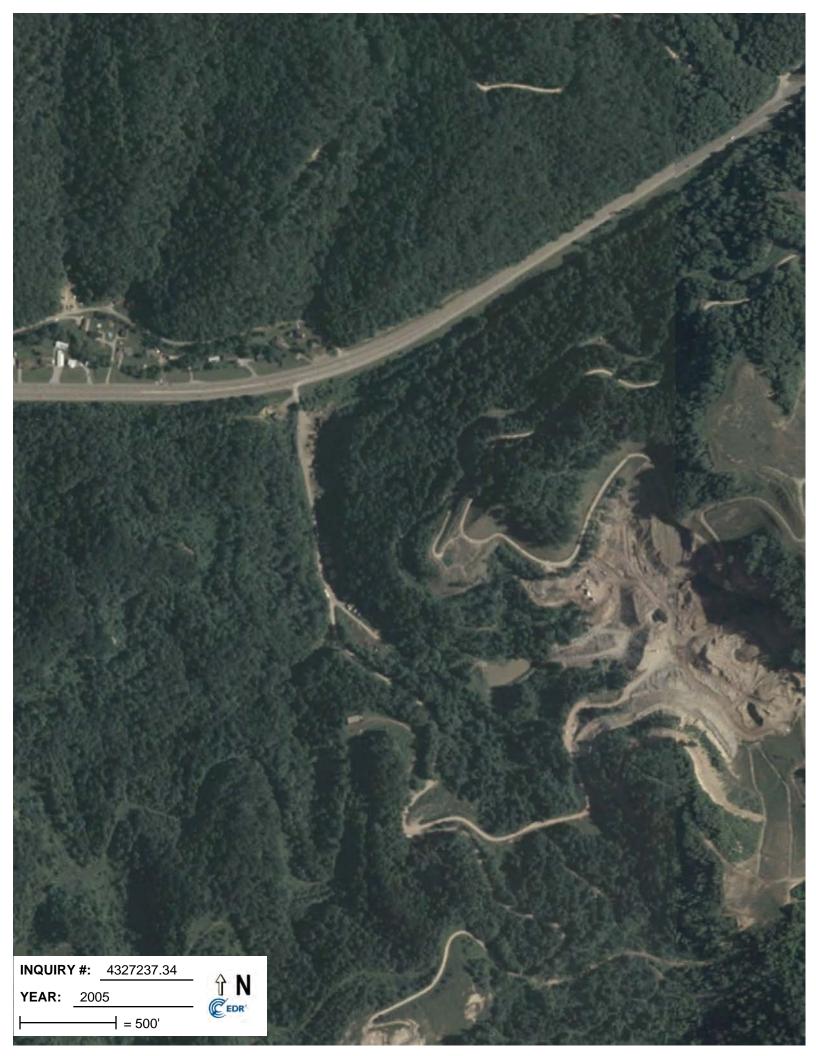






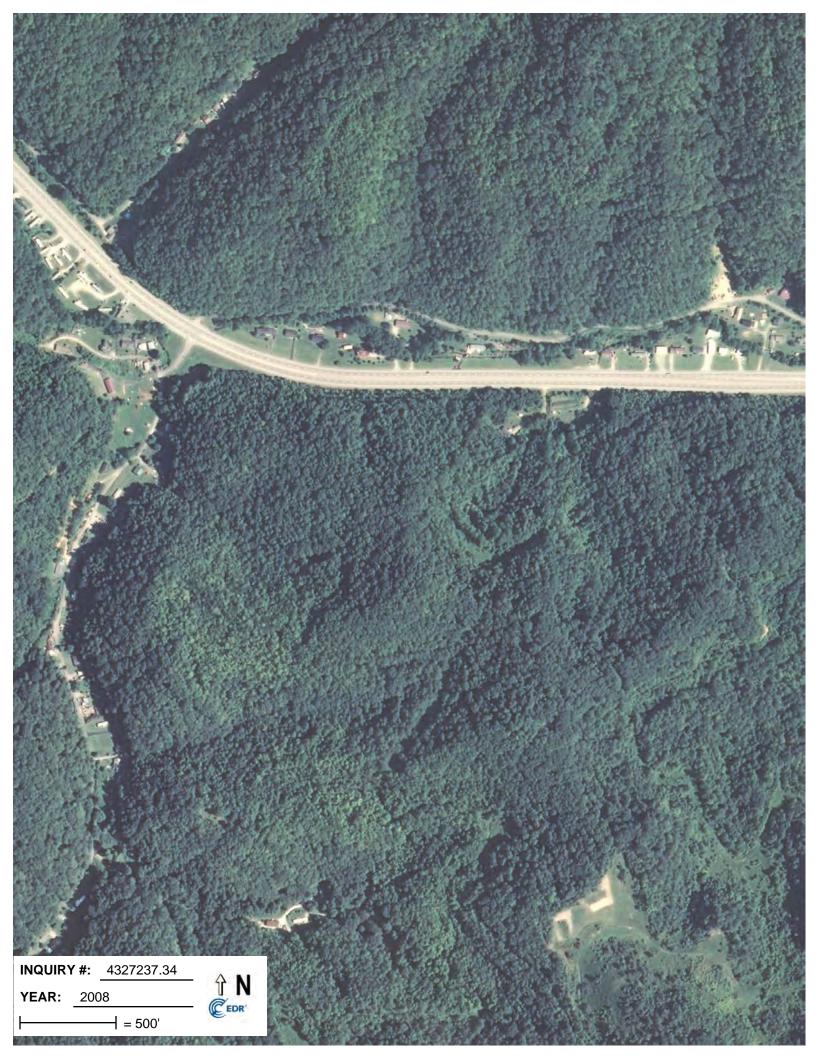


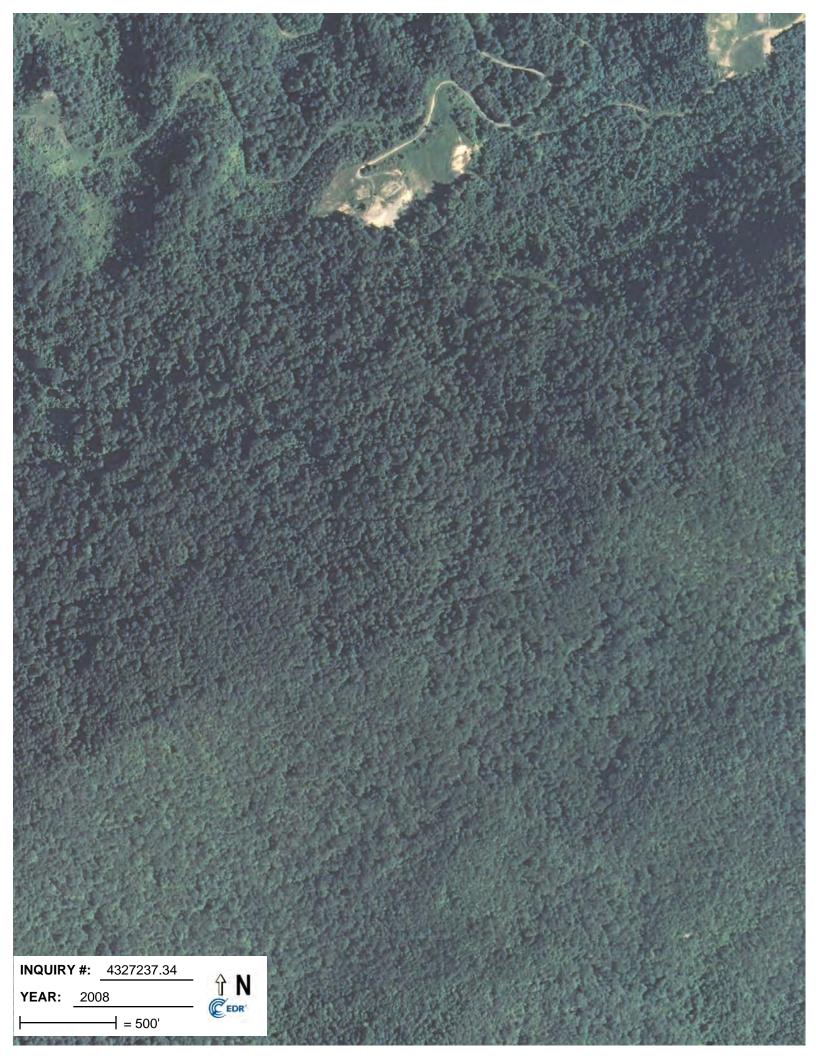


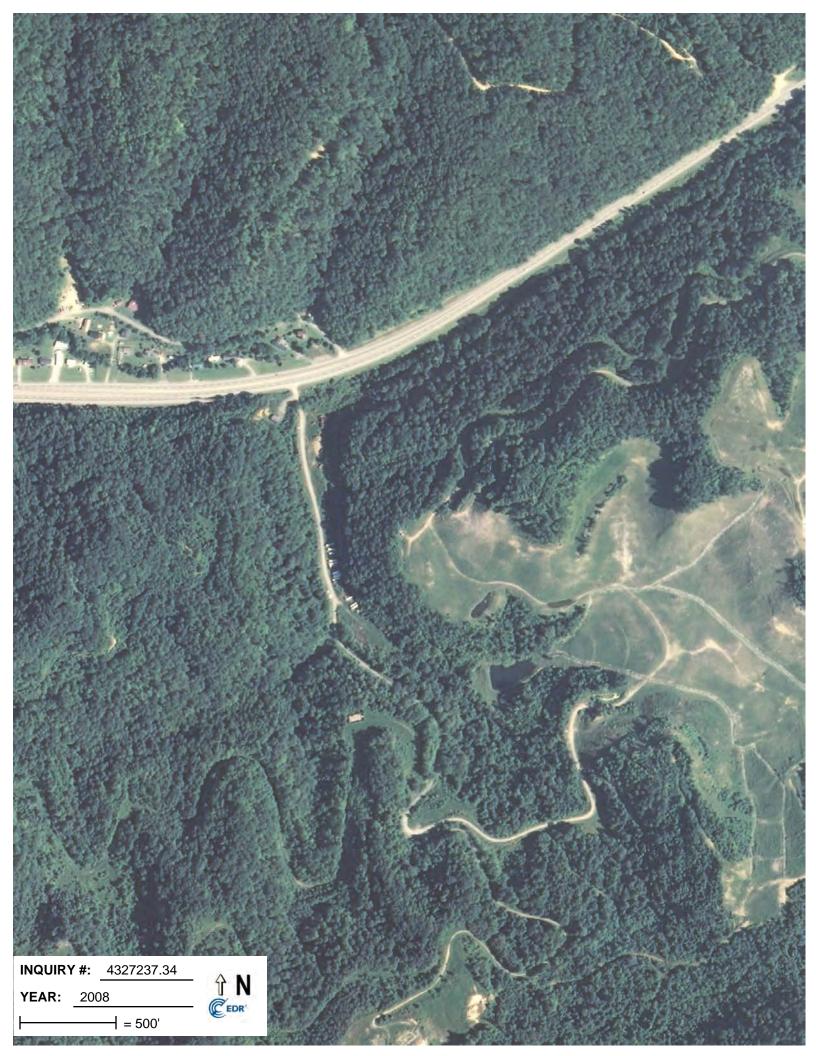






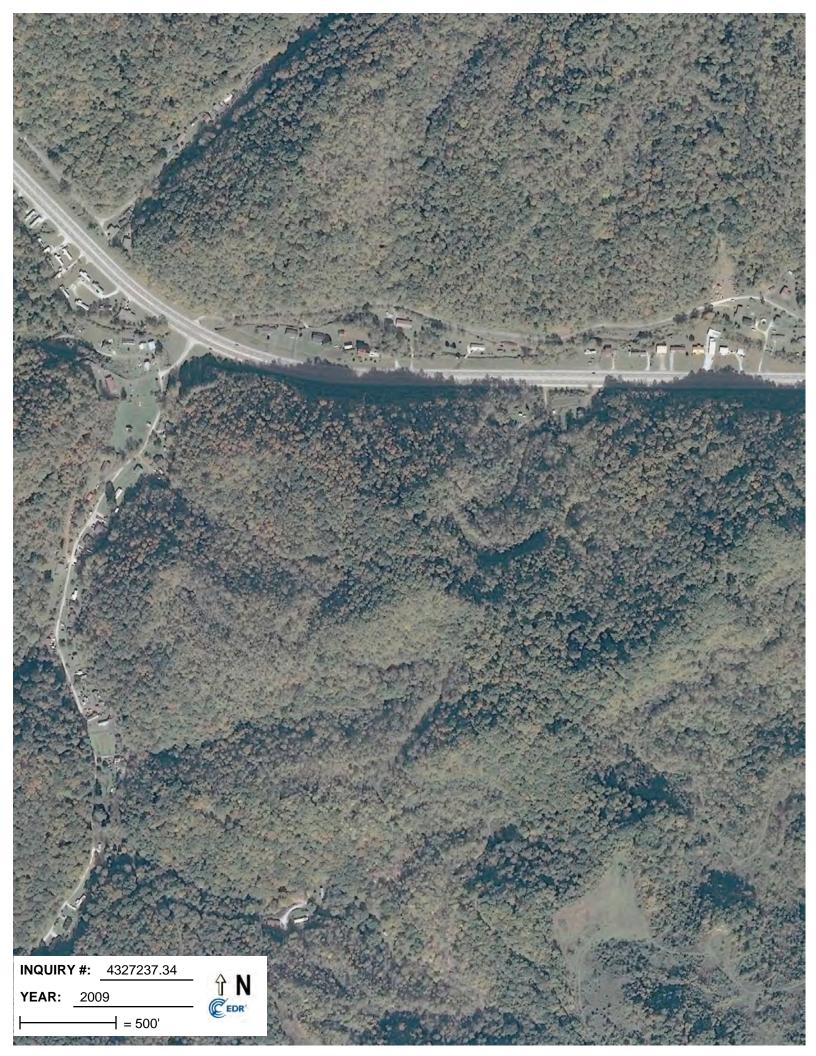


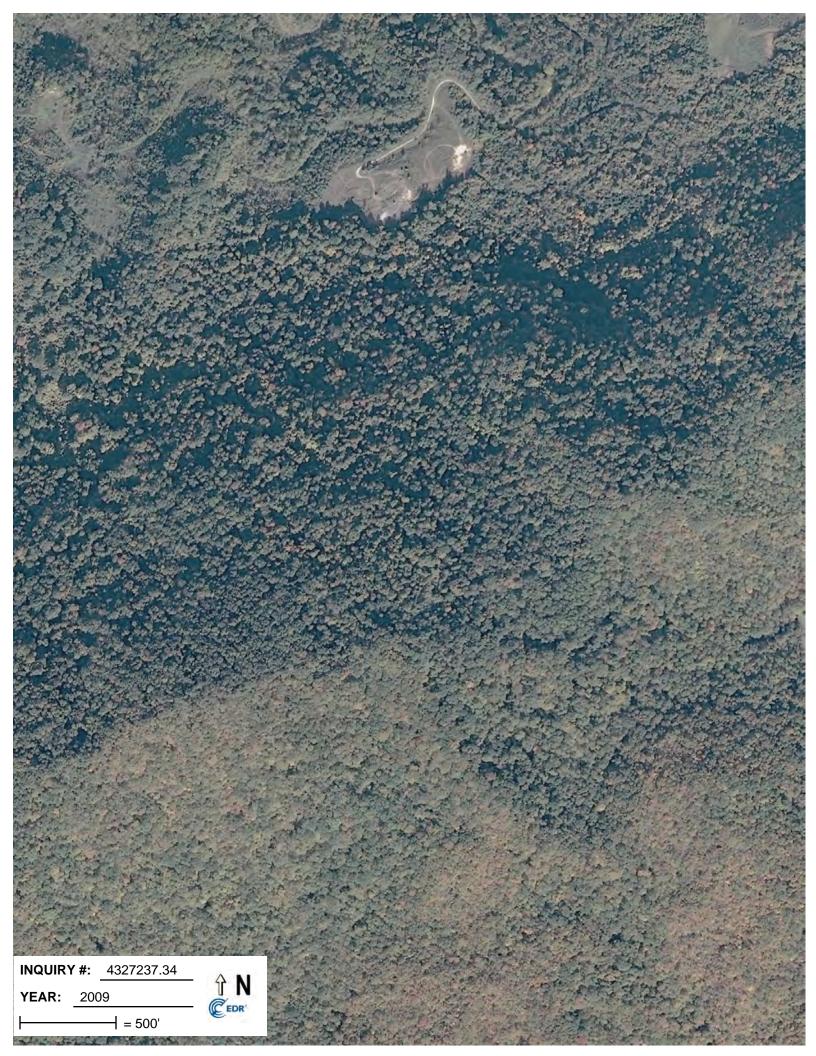


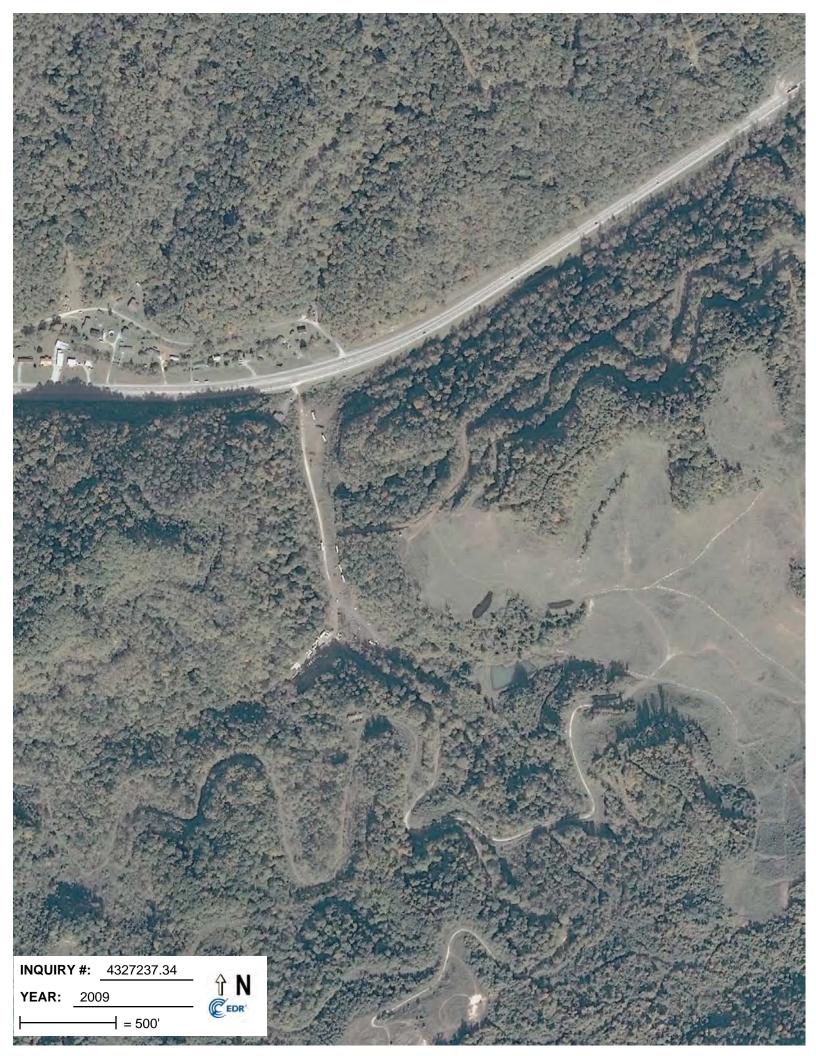




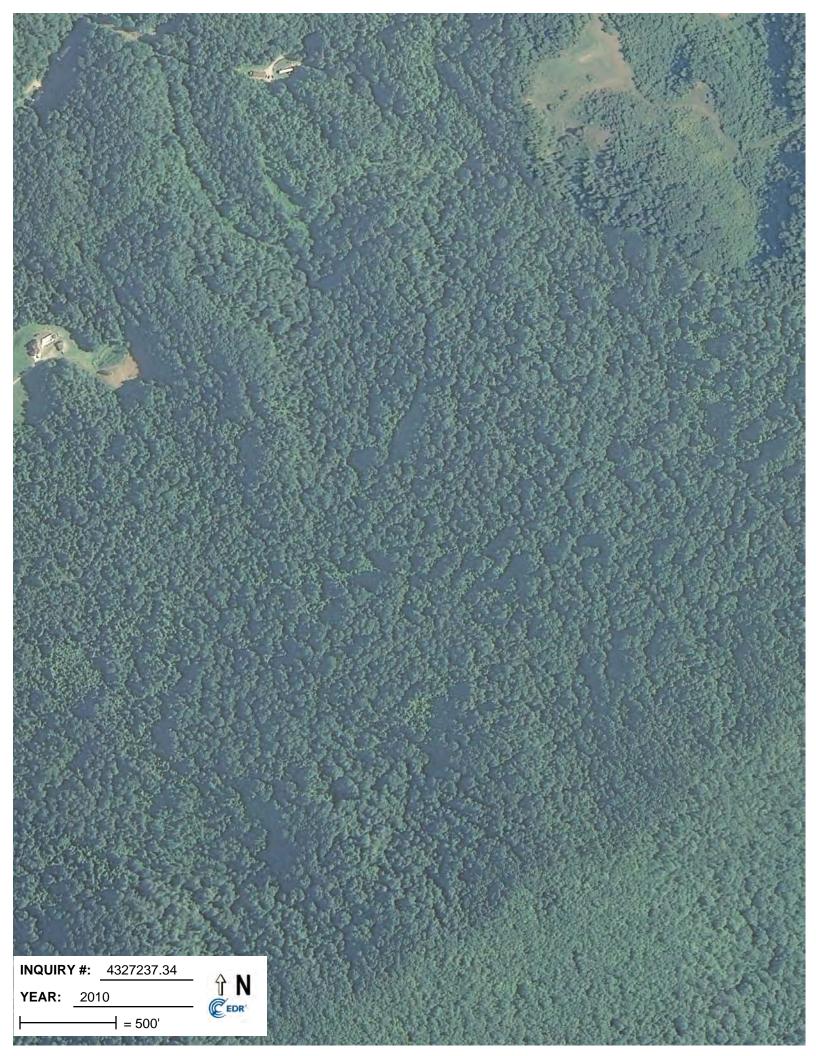


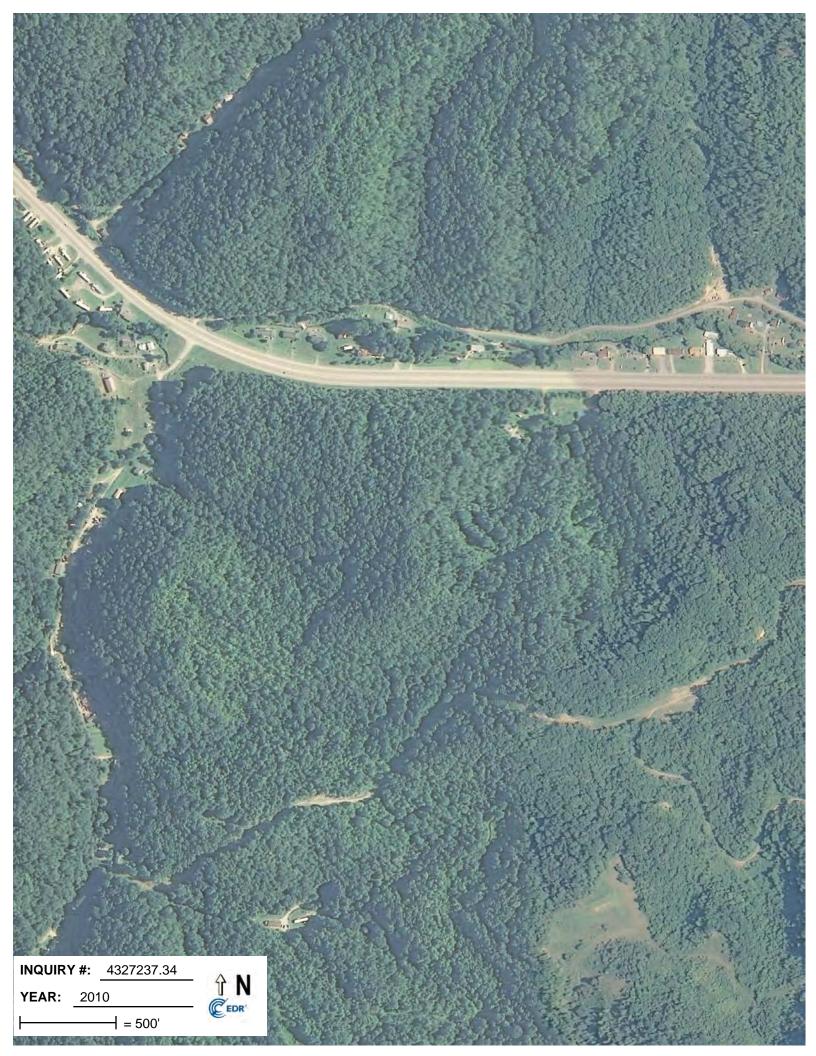


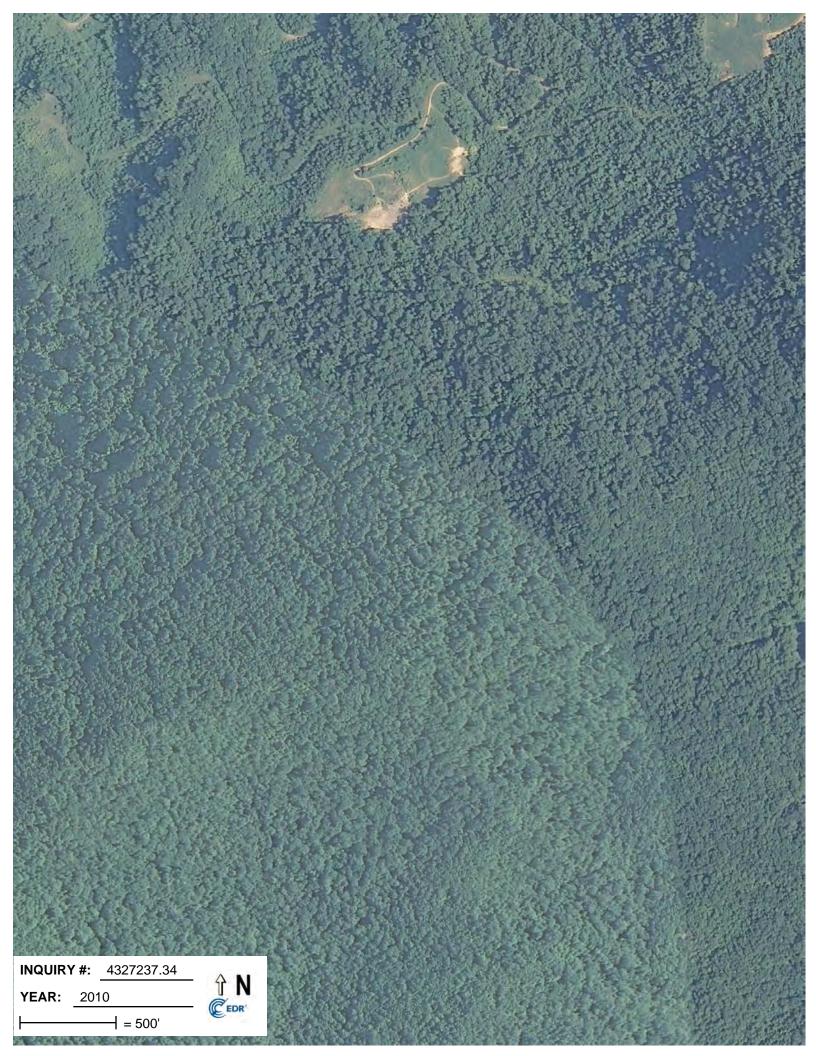


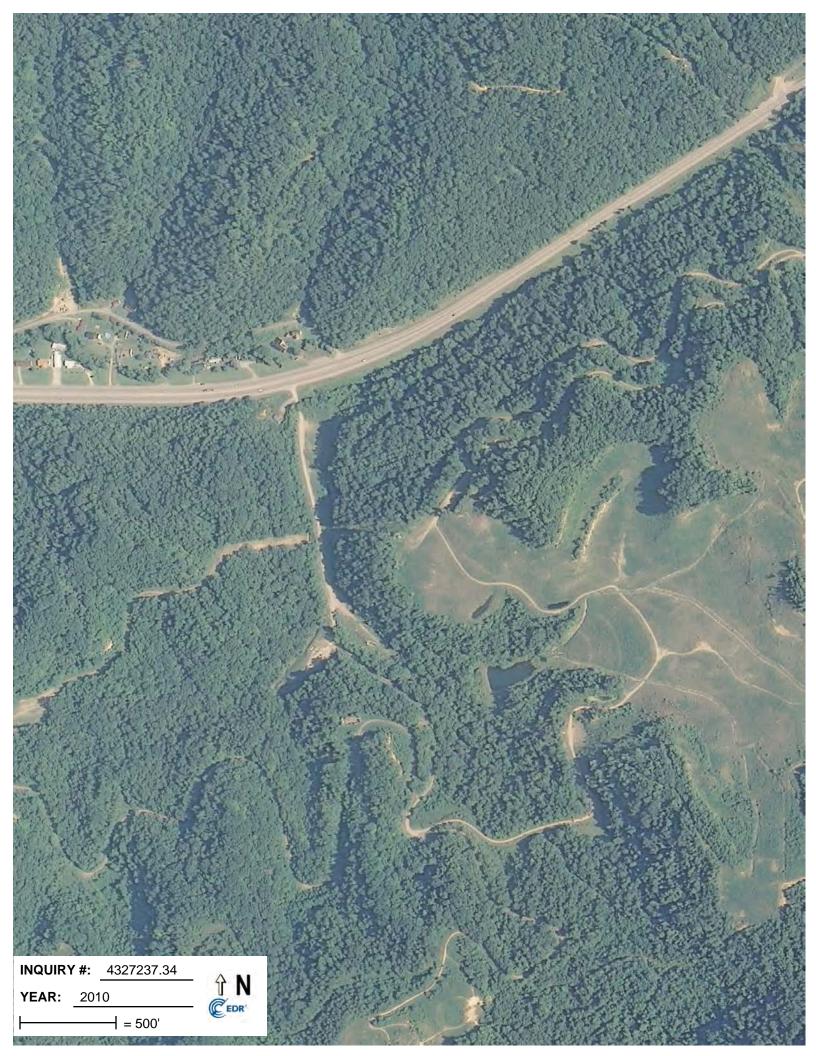




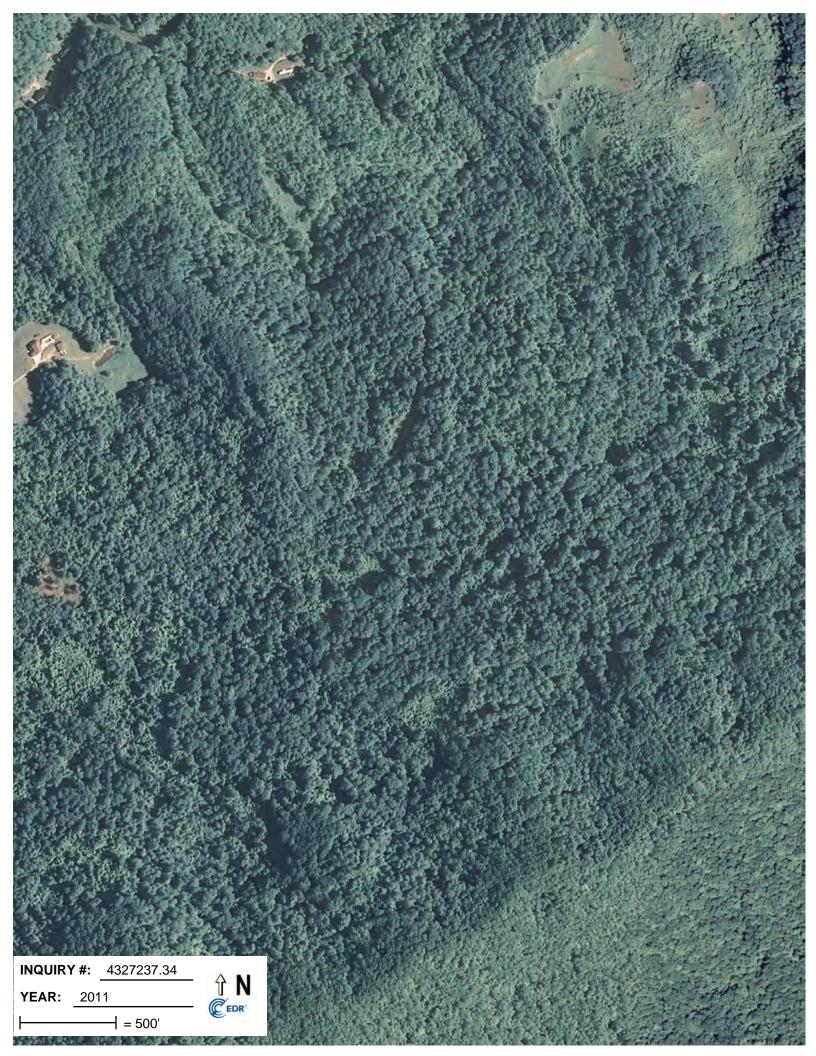


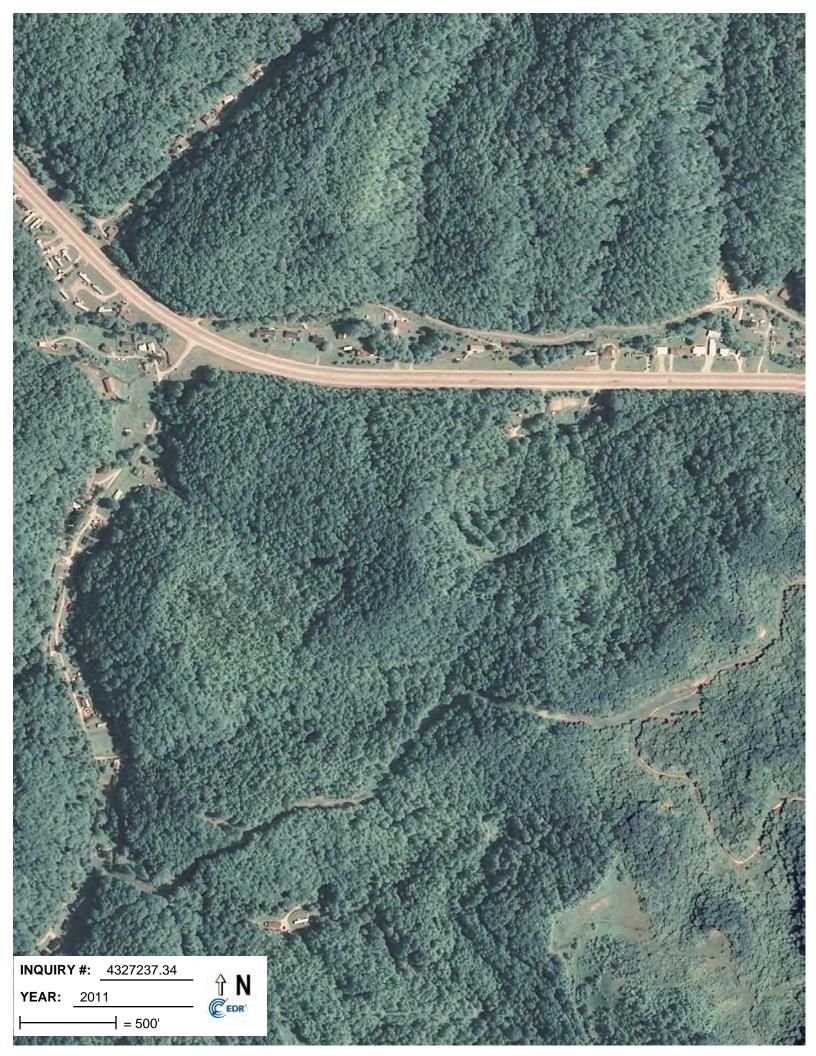












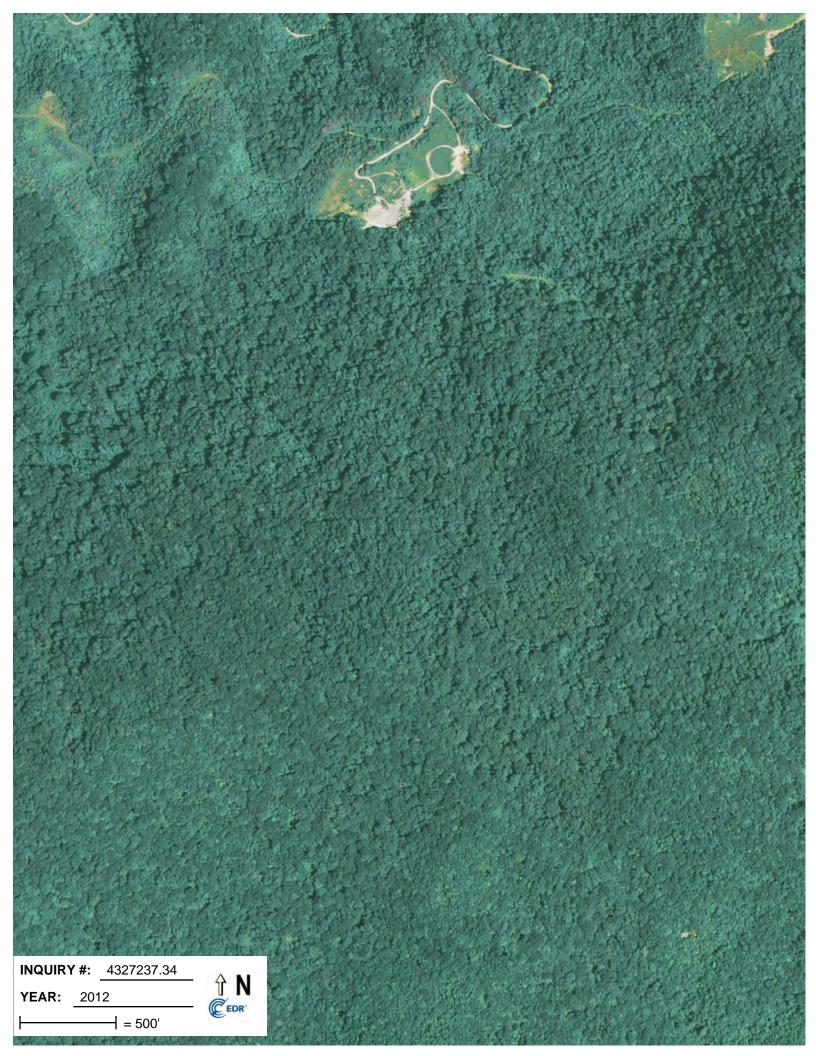


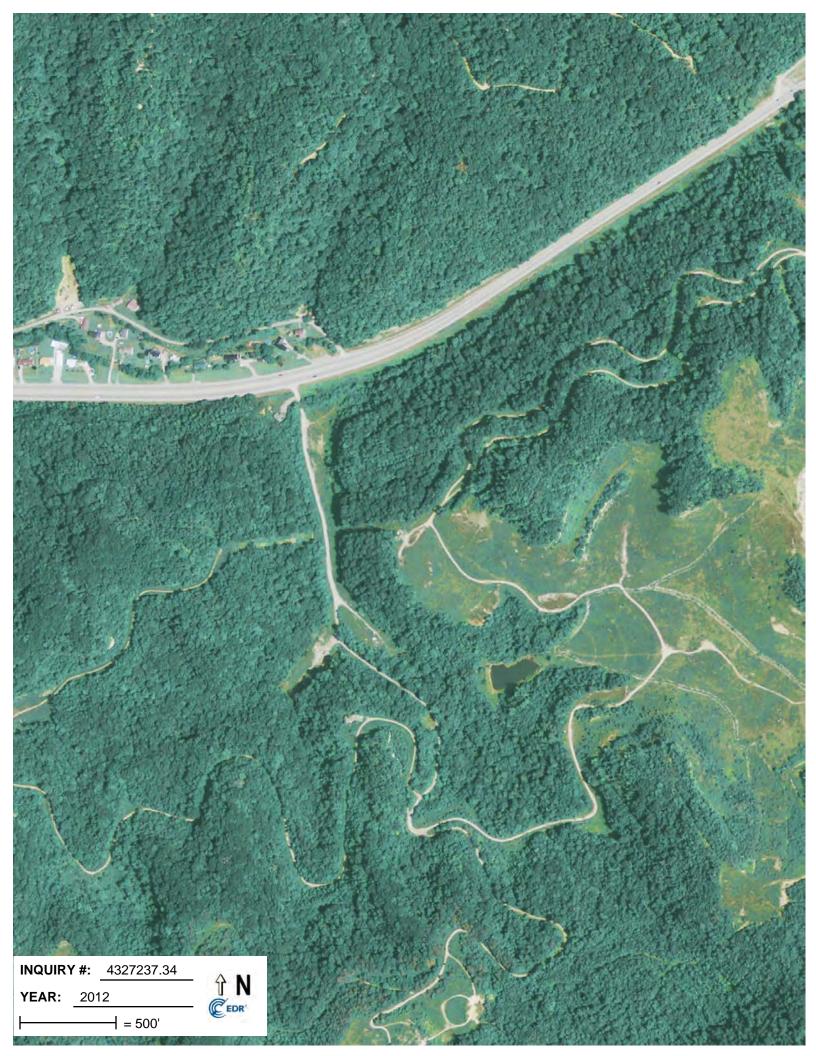














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Appendix F: City Directories

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Paynes Gap

199 County Road 1417 Mayking, KY 41837

Inquiry Number: 4327237.27

June 17, 2015

The EDR-City Directory Image Report



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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2013		$\overline{\checkmark}$	Cole Information Services
2008		$\overline{\checkmark}$	Cole Information Services
2003		$\overline{\checkmark}$	Cole Information Services
1999		$\overline{\checkmark}$	Cole Information Services
1995			Cole Information Services
1992			Cole Information Services

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

199 County Road 1417 Mayking, KY 41837

<u>Year</u>	<u>CD Image</u>	<u>Source</u>				
COUNTY F	COUNTY RD 1417					
2013	-	Cole Information Services	Target and Adjoining not listed in Source			
2008	-	Cole Information Services	Target and Adjoining not listed in Source			
2003	-	Cole Information Services	Target and Adjoining not listed in Source			
1999	-	Cole Information Services	Target and Adjoining not listed in Source			
1995	-	Cole Information Services	Target and Adjoining not listed in Source			
1992	-	Cole Information Services	Target and Adjoining not listed in Source			

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FINDINGS

CROSS STREETS

<u>Year</u>	CD Image	<u>Source</u>		
HIGHWAY	HIGHWAY 119 N			
2013	pg. A2	Cole Information Services		
2008	pg. A4	Cole Information Services		
2003	pg. A6	Cole Information Services		
1999	pg. A7	Cole Information Services		
1995	-	Cole Information Services	Target and Adjoining not listed in Source	
1992	-	Cole Information Services	Target and Adjoining not listed in Source	

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3397	WHITESBURG POST OFFICE
3406	PRECISION INCORPORATED
3433	DOLLAR GENERAL STORE
3441	STANDARD LABORATORIES
3729	WALTER ALLEN
3886	H BOLLING
4150	CHESTER ADAMS
4675	MELISSA SMITH
4686	GORDON WEBB
6594	HOPE WHITE
6749	MARK WRIGHT
6785	EDWARD WRIGHT
6983	CHARLES ENGLE
7112	JOSH YONTS CORA STURGILL
7246	
7247	ANDREA POTTER OCCUPANT UNKNOWN
7294 7316	JERRY WALKER
7318	ALISON BROWN
7310	RACHEL DYER
7332	CHARLES KILGORE
7360	PAM SPANGLER
7368	OCCUPANT UNKNOWN
7370	BRIAN BOWMAN
7376	BARBRA FOX
7378	T STURGILL
7398	TOM TOLLIVER
7400	MARCIA VANOVER
7541	BILLIE KINCER
7569	OCCUPANT UNKNOWN
7641	CHARLES HOLBROOK
7759	GARY ROSE
7860	CARRIE WRIGHT
7869	JAMES HITCHCOCK
7876	OCCUPANT UNKNOWN
7915	JAMES HITCHCOCK
7937	KINGS CORNER
	LININGS RHINO
7959	GARY FLEMING
7979	GRUBBS CERAMIC GIFTS & FLORALS
7993	BUDDY GRUBB
8005	CHUCK GRUBBS
8041	JIMMY WRIGHT
8043	CASSIE WHITAKER
8059	BOB KNIGHT
8109	TOMMY ROSE
8137	JAMES STAMBAUGH
8155	ELMER BROWN
8171	ELMER BROWN
8257	KENNETH WEBB

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>
- Cole Information Services

HIGHWAY 119 N 2013 (Cont'd)

9282	OCCUPANT UNKNOWN
9404	PATRICIA BOLLING
9424	ROY BENTLEY
9499	OCCUPANT UNKNOWN
9504	RONNIE WRIGHT
9598	KIM PAGE
9645	WAYLON BODY SHOP
9700	LARRY ELKINS
9731	AMBER WYATT
9773	JOHN WHITAKER
9802	JAMIE ANDERSON
9868	JEFFS COLLISION CENTER INC
9936	REGINA SEXTON
9941	OCCUPANT UNKNOWN
9966	SILAS PARROTT
9978	BILL VANOVER
9984	SILAS PARROTT
10006	REBA DUNN
10053	ROBERT INGRAM
10318	ROGER COLLIER
10336	TIMOTHY RICHARDSON
10600	MARVIN BOGGS

0.44.4	
3411	SEARS ROEBUCK & CO
4686	GORDON WEBB
6088	ROLAND WHITE USED CARS
6242	MARK COOK
6269	RED ROOF BINGO
6594	NOLAN WHITE
6749	MARK WRIGHT
6825	DOUG HOLBROOK
6983	CHARLE ENGLE
7112	BILLY STAMPER
7246	BRUCE OUTLAW
7247	DEBBIE DAVIS
7308	SABRINA BARNETT
7318	ALISON BROWN
7320	HEATHER SEXTON
	RACHEL DYER
7360	TERESA BURKE
7368	JEFFREY RAEHAL
7376	GREGORY TRENT
7378	JEFF SEXTON
7398	TOM TOLLIVER
7400	PAUL VANOVER
7541	JEANNE CHANNELL
	LAUREL FORK INVESTMENTS INC
7569	WALTER KINCER
7641	CHARLES HOLBROOK
7869	JAMES BULLION
7876	RICHARD HITCHCOCK
7915	JAMES HITCHCOCK
7937	LININGS RHINO
	RHINO LININGS
7959	GARY FLEMING
7979	GRUBBS CERAMICS GIFTS & FLORALS
7993	BUDDY GRUBB
8005	CHUCK GRUBBS
8041	JIMMY WRIGHT
8043	JASON SMITH
8109	TOMMY ROSE
8137	JAMES STAMBAUGH
8155	ELMER BROWN
8257	EVA YOUNG
8957	BLANCHE WEBB
9404	P BOLLING
9424	ROY BENTLEY
9485	G & L CUSTOM EXHAUST
	GREGORY BENTLEY
20:-	ROADTRIP MOTOR CO
9645	MCPEEK HEATING & COOLING & ELECTRI
9731	PEGGY CORNETT
9773	JOHN WHITAKER

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>
- Cole Information Services

HIGHWAY 119 N 2008 (Cont'd)

9868	JEFFS COLLISION CENTER
9936	LAWRENCE SEXTON
9941	GEORGE BEVINS
9978	BILL VANOVER
9984	SILAS PARROTT
10318	ROGER COLLIER
10336	CAN RICHARDSON
10600	MARVIN BOGGS

Target Street

Cross Street

<u>Source</u>

Cole Information Services

2587	JOE HOLBROOK
4675	ARLIN SHEPHERD
4686	GORDON WEBB
6088	ROLAND WHITE USED CARS
6625	GLENDA RICHARDSON
	HARVEST HOUSE
6749	MARK WRIGHT
6785	WRIGHTS MARINE & RV INC
6983	DELORES ENGLE
7112	DONNIE FIELDS
7246	DANA OUTLAW
7360	
7400	M ADAMS
7541	LAUREN CHANNELL
7641	CHARLES HOLBROOK
_	BOBBY WARF
	JAMES BULLION
	CARL HITCHCOCK
	PERFECT FIT TRUCK & CAR ACSRY
	GARY FLEMING
	GRUBBS CERAMICS GIFTS & FLRL
0000	COUNTRY COTTAGE FURNITURE
8041	JIMMY WRIGHT
	TOMMY ROSE
	JAMES STAMBAUGH
	JAMES YOUNG
	ROY BENTLEY
·	ROADTRIP AUTO SALES
	MARTIN PAGE
	MCPEEK HTNG & CLNG & ELCTRCL
	APRIL ANDERSON
	PEGGY SEXTON
	DOROTHY MILLER
	JEFFS BODY & CUSTOM SHOP INC
3000	JEFFS BODY SHOP
00/1	GEORGE BEVINS
	DOROTHY DOTSON
	BILL VANOVER
	ROBERT INGRAM
	RAY STALLARD
	ROGER COLLIER
10330	CAN RICHARDOON
	4675 4686 6088 6625 6749 6785 6983 7112 7246 7360 7400 7541 7641 7689 7759 7869 7876 7937 7959

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>
- Cole Information Services

4150	CHESTER ADAMS
4675	ARLIN SHEPHERD
4686	G WEBB
6625	GLENDA RICHARDSON
	RICHARDSON AL & GLENDA GIFTS AND DECORATING
7876	RICHARD HITCHCOCK
7959	GARY FLEMING
8005	CHUCK GRUBBS
8041	JIMMY WRIGHT
8257	DICKIE COOK
8945	GREG KELLY
8957	HENRY WEBB
9404	P BOLLING
9485	GREGORY BENTLEY
9598	MARTIN PAGE
9941	GEORGE BEVINS
9966	DOROTHY DOTSON
9978	BILL VANOVER
10311	RAY STALLARD
10336	CAN RICHARDSON

Appendix G: User Questionnaire

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X3. USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the Landowner Liability Protections (LLPs)187 offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), 188 the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) Identity any environmental news med or recorded against maproperty under federal, tribal, state or local law?
Note 1—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.
records rather than in land title records. In such cases judicial records must be scarcific for our former and the end of the cases judicial records must be scarcific.
(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and
vi)). Did a search of recorded land title records (or judicial records where appropriate, seeNote 1 above) identify any AULs, such asengineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?
No
(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the <i>property</i> or nearby properties? For example, are you involved in the same line of business as
the current or former occupants of the property or an adjoining property so that you would have specialized knowledge or the chemicals and processes deed by
this type of business? USD, Proporty owner
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to Identify conditions

indicative of releases or threatened releases? For example,

(a.) Do you know the past uses of the *property?*(b.) Do you know of specific chemicals that are present or once were present at the *property?*

(c.) Do you know of spills or other chemical releases that have taken place at the property? No

(d.) Do you know of any environmental cleanups that have taken place at the property?

(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25).

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the

property?

X3.1 In addition, certain information should be collected, if available, and provided to the environmental professional conducting the Phase I Environmental Site Assessment. This information is intended to assist the environmental professional, but is not necessarily required to qualify for one of the LLPs. The information includes:

(a) the reason why the Phase I is being performed,

(b) the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,

(c) the complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful),

¹⁸⁷ Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003. 188 P.L. 107-118.

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Appendix H: Qualifications

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ERIKA FUERY ENVIRONMENTAL SCIENTIST TEC INC. - MIDDLETOWN, CT

EDUCATION

1995/B.A./Field Biology/Environmental Studies/University of Northern Colorado 2004/M.S./Environmental Science/University of New Haven

CERTIFICATIONS

Professional Certification in Geographical Information Systems, University of New Haven, 2001 OSHA HAZWOPER Certification
Niton XRF Certification
Trimble GPS Training
ISO 14001:2004 E.M.S. Lead Auditor

YEARS EXPERIENCE: 10

PROFESSIONAL EXPERIENCE

Ms. Fuery is an Environmental Scientist who specializes in dredged material management, Phase I/Phase II Environmental Site Assessments, remedial investigations and documentation, and Geographical Information Systems analysis. She has conducted remedial investigations in Massachusetts, Delaware, Virginia and Connecticut and provided management alternatives analyses for contaminated material for projects in Maine, Massachusetts, Rhode Island, New Jersey, Pennsylvania, Florida, New York and Connecticut. She has worked closely with state and Federal agencies and has successfully assisted clients in making management decisions regarding contaminated materials by providing comprehensive cost analyses for available disposal methods that have been approved by the EPA. Ms. Fuery has contributed to numerous NEPA documents and has assisted in preparation of Federal and state environmental permit applications.

Completed Detailed Phase I Environmental Site on Several Properties in the Northeast U.S.. The primary objective of the Phase I ESA is to render an opinion as to whether surficial or historical evidence indicates the presence of recognized environmental conditions which would result in a release of hazardous materials into the environment, as defined by the American Society for Testing and Materials Standard Practice E1527-00 for Phase I ESAs. The studies included; site reconnaissance; review of the property history; and, review of selected local, state and federal regulatory records.

Completed Numerous Phase II Subsurface Investigations to Determine Absence or Presence of Contamination at Sites in Pennsylvania, Connecticut and Massachusetts. Phase II investigations involved the sampling of soil and groundwater in areas deemed likely to have been impacted by hazardous materials based on current and historical land use practices. The results of the Phase II investigations determined whether remediation was necessary at the sites.

Contributed to Work Plan Development, Site Assessment, Long Term Monitoring and Remediation of a Contaminated Park in East Hartford, CT. The project was located in a municipal park near a residential neighborhood and a school. The site was formerly a gravel pit that was filled in 1960s and 1970s. As a result of the filling activities, elevated levels of regulated compounds were present in the soil and groundwater at several locations within the property boundaries. The remediation of the site included excavation and disposal of impacted soils, backfilling the excavations with clean material to render the site acceptable for residential activities, and long-term, quarterly groundwater monitoring in accordance with Connecticut Department of Environmental Protection requirements.

Dredge Material Management and Environmental Assessment of Pier 3 Replacement, Naval Weapons Station Earle, Colts Neck, NJ - Team analyst, conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA. The analysis involved detailed evaluations of disposal and dewatering options, locations and costs for several thousand cubic yards of contaminated dredged material as well as several thousand cubic yards of creosote-treated timber piles. Data provided in this analysis was also incorporated into the Environmental Assessment for this project.

Development of Confined Aquatic Disposal Site and Environmental Assessment for Pier 6 Replacement, Naval Submarine Base, New London, CT - Team analyst, conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA for several thousand cubic yards of contaminated sediment. The analysis involved detailed evaluations of treatment, disposal and dewatering options and well as a siting study and cost analysis. The analysis led to the conclusion that Confined Aquatic Disposal (CAD) would provide the most cost-effective dredge material disposal option for the contaminated sediment. The successful CAD development was the first of this type of disposal method executed in the Thames River. Data provided in this analysis was also incorporated into the EA for this project.

Feasibility Study and Environmental Assessment for Maintenance Dredging of Naval Inactive Ship Reserve Basin Philadelphia, PA - Team Analyst, contributed to the development of a Feasibility Study and an EA for the proposed dredging, treatment, and disposal of approximately 300,000 cubic yards of contaminated sediment from the NISMO Reserve Basin. Project challenges included heavy sediment contamination, presence of unexploded ordnance, and lack of available land area for dewatering and treatment of the contaminated sediments.

Master Plan for Port of Vlora, Albania - Team Analyst, contributed to the development of a feasibility study for the development of an energy park in Vlora, Albania. The study analyzed the potential to develop a new, dedicated cargo port and adjacent energy park to the north of the city of Vlora. Project challenges included heavy mercury contamination at the proposed New Port site, lack of suitable waste stream controls, poorly maintained infrastructure, and a weak economy.

Environmental Assessment for the Transfer of the Melville Marina Property at Naval Station Newport in Newport, RI – Team Analyst. Contributed to the development of an Environmental Assessment for the transfer of a former fueling depot property from the Navy to the state of Rhode Island. The waterfront property was identified as a historic district and had a long history of heavy industrial use. The site is being managed under the base IR program and remedial actions are currently ongoing at the site.

Planning for Maintenance Dredging of Hague Basin at United States Merchant Marine Academy, Kings Point, NY - Team Analyst and Health and Safety Officer. Conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA. The analysis involved detailed evaluations of disposal and dewatering options, locations and costs for several thousand cubic yards of contaminated dredged material. Participated in Sampling Plan development and results reporting and oversaw sampling activities to ensure compliance with the Sampling Plan and the Health and Safety Plan.



Phase I Environmental Site Assessment for Proposed United States Penitentiary and Federal Prison Camp

Roxana, Letcher County, Kentucky

Prepared by:



October 2015

United States Department of Justice

Federal Bureau of Prisons

320 First Street, NW

Washington, DC 20534



SUMMARY

Cardno was retained by the Federal Bureau of Prisons to conduct a Phase I Environmental Site Assessment (ESA) to identify recognized environmental conditions (RECs) at the 700-acre property, herein referred to as the subject property, located in eastern Letcher County, 7.5 miles west of Whitesburg, Kentucky (Figure 1 in Appendix A). The subject property, which is composed of multiple parcels under private ownership, is proposed for purchase by the Federal Bureau of Prisons to support development of a new federal correctional facility. This ESA meets or exceeds the requirements of the American Society for Materials and Testing (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-13. This document follows the recommended structure for an ESA provided in ASTM E 1527-13. This report was prepared pursuant to an inquiry into the prior ownership and uses of the subject property, consistent with good commercial and customary practice.

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A REC can include hazardous substances or petroleum products even under conditions in compliance with laws. *De minimis* conditions are not recognized environmental conditions and are defined as conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs to exist in connection with a property. This ESA has been prepared to reduce, but not eliminate, uncertainty regarding the existence of RECs in connection with the property, recognizing the limits of cost and time. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property with the exception of:

- The open drain at the large aboveground storage tank located to the north of the Meade compound
- The compressor station and surrounding soils and open containers of petroleum products
- The damaged plastic aboveground storage tank located approximately 1,000 feet east of the compressor station
- Two transformers located near the Meade compound

Cardno recommends that a Phase II Environmental Site Assessment should be conducted before the Federal Bureau of Prisons begins the property acquisition process.



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1 INTRODUCTION

1.1 Purpose

Cardno was retained by the Federal Bureau of Prisons to conduct a Phase I Environmental Site Assessment (ESA) to identify recognized environmental conditions (RECs) at a 700-acre property located in eastern Letcher County, 7.5 miles west of Whitesburg, Kentucky. The subject property is south of KY Route 588 and west of KY Route 160 (Figure 1 in Appendix A).

Cardno conducted this ESA in accordance with the American Society for Materials and Testing International Designation: E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13). This standard defines good and customary practice for conducting an ESA of a parcel of real estate with respect to petroleum products and the range of contaminants regulated under the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The ASTM standard is intended to permit a user to satisfy one of the requirements to qualify for the "innocent landowner" defense to CERCLA liability. However, it should be noted that the property subject to this ESA is composed of multiple, privately-owned parcels of land..

This document follows the recommended structure for an ESA provided in ASTM E 1527-13.

The goal of this Phase I ESA is to identify RECs on the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A REC includes hazardous substances or petroleum products even under conditions in compliance with laws. *De minimis* conditions are not recognized environmental conditions, generally do not present a threat to human health or the environment, and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Structures on the subject property were also assessed for the potential presence of suspect asbestos-containing material, lead-based paint, and radon although no samples were collected during the Phase I ESA.

This Phase I ESA report documents the environmental conditions of the subject property as observed on July 20 and 21, 2015. The results of this assessment are limited to a visual site reconnaissance, a state and federal regulatory database review, and interviews with individuals familiar with the subject property. No samples were collected of any environmental media (soil, water, asbestos, etc.) during this study. Information pertaining to environmental issues was gathered through site observations, interviews, and available documentation, as appropriate. A series of photographs taken at the subject property is included in the Photographic Record (Appendix B).

1.2 Detailed Scope of Services

This report was prepared in response to the request by the Federal Bureau of Prisons to conduct an ESA accordance with ASTM E1527-13.

The scope of services for this ESA included the following:

- Phase I ESA in accordance with the standards of the ASTM as set forth in Practice E 1527-13.
- Title search or assessor records review back to the first developed use or to 1940, whichever is earlier.

- Visual site inspection of the subject property and surrounding area to evaluate present conditions.
- Evaluation of the historical use of the subject property, by reviewing aerial photographs and historic topographic maps reasonably available from public sources and Sanborn maps.
- Review of records reasonably available from appropriate federal, state, and local regulatory agencies for documented soil and/or groundwater contamination investigations conducted at the subject property and vicinity, as defined in the ASTM standard.
- Review of the compliance history of the subject property, and of any adjacent sites, as identified by the regulatory database review.
- Interviews with individuals familiar with the subject property and surrounding areas.
- Review of the proposed site plan.
- Presentation of the aforementioned services in this report.

1.3 Significant Assumptions

The research, site reconnaissance, and interviews conducted in support of this ESA are based upon assumptions intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or environmental professional in performing an ESA or in judging whether a user or environmental professional has conducted appropriate inquiry or has otherwise conducted an adequate ESA. These assumptions are as follows:

- Records reviewed are assumed to be complete as provided by the source of the record (government agencies or commercial services) and current as of the date of review. Government information obtained from non-governmental agencies is considered current if the source updates the information at least every 90 days or, for information that is updated less frequently than quarterly by the governmental agency, within 90 days of the date the government agency makes the information available to the public.
- It is assumed that person(s) interviewed in connection with this ESA have answered all questions posed by the person(s) conducting the interview, in good faith, to the extent of their actual knowledge.
- No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. This ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and within reasonable limits of time and cost. All appropriate inquiry does not mean an exhaustive assessment of a clean property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions.
- Not every property will warrant the same level of assessment. Consistent with good commercial or customary practice, the level of assessment was guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry. It is assumed that ESAs must be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made. Subsequent ESAs should not be considered valid standards to judge the appropriateness of any prior assessment based on hindsight, new information, use of developing technology or analytical techniques, or other factors.

1.4 Limitations and Exceptions

In preparing this report, Cardno has relied on information derived from secondary sources, computer databases, and personal interviews. Except as detailed in the report, Cardno has not attempted to verify the accuracy and completeness of the information derived from the secondary sources cited in the report. Cardno makes no claims, warranties, or guarantees as to the accuracy of the information contained within the studies, reports, and data reviews that Cardno did not complete for this assessment. Cardno therefore offers this report based on the assumption that such information is accurate and complete.

The findings, observations, and conclusions set forth in this report are limited by the client (also referred to as "user") and/or contract technical specifications and the methods employed in meeting these specifications. The services requested by the client have been performed in accordance with currently accepted industry standards for the conduct of ESAs. In order to perform a comprehensive environmental evaluation, subsurface investigation and testing would be required in order to definitively determine whether contamination has affected the subject property.

This ESA is site-specific in that it relates to assessment of environmental conditions on a specific parcel of commercial real estate. Consequently, this practice does not address many additional issues raised in transactions such as purchases of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other off-site environmental liabilities.

1.5 Special Terms and Conditions

No special terms and conditions associated with the preparation of this report were identified.

1.6 User Reliance

This report was prepared solely for the use of the Federal Bureau of Prisons, and is not intended for use by third parties. Unauthorized third parties shall indemnify and hold Cardno harmless against any liability for any loss arising out of, or related to, reliance by any third party on any work performed hereunder, or the contents of this report.

2 SITE DESCRIPTION

The following text provides a legal description of the subject property, its location, and the general characteristics of the property and surrounding area.

2.1 Location and Legal Description

The subject property consists of approximately 700 acres of land encompassing nine parcels with eight separate land owners identified by the Assessor Parcel Numbers (APN) listed in Table 1. The subject property is located in Roxana, Kentucky. The location and boundary of the subject property is illustrated in Figure 1 contained in Appendix A.

APN	Owner
044-00-00-049.00	Ira Frazier
044-00-00-073.00	Mitchum Whitaker
044-00-00-076.00	Richard Isom Trust III (2
	parcels with same APN)
044-00-00-043.00	Lee Gentry Heirs
044-00-00-037.00	Sandra Creech
044-00-00-039.00	Carlos Isom
044-00-00-077.00	Randall Meade
044-80-00-003.00	Thomas Stahl

Table 1. Parcel Identification and Property Owners

2.2 Site and Vicinity General Characteristics

The subject property is located approximately 7.5 miles west of Whitesburg, Kentucky. It is south of KY Route 588 and west of KY Route 160. The area was previously surface mined; however, mining activities no longer occur at the subject property. Land use surrounding the subject property is also primarily forested, with small single-family residences in the area. There are also several state parks and nature preserves within the area. They include Bad Branch Falls State Nature Preserve, Kingdom Come State Park, and Pine Mountain Wildlife Management Area. There are no zoning ordinances or land use classifications identified for this area (DePriest 2013).

2.3 Current Use of the Property

Land use associated with the subject property includes residential and undeveloped areas. The undeveloped areas are predominantly forested and are primarily used for recreational activities such as hiking, primitive camping, and hunting. Several tree stands were observed. There are also former surface mined areas and a small agricultural area. The subject property also provides a venue for family gatherings and celebrations. A model airplane strip is also located on the subject property, as is.

2.4 Description of Structures, Roads and other Improvements on the Site

Bluegrass Ridge Road traverses the property and connects KY Route 160 and Big Branch-Tolson Creek Road/Southeast Road. Both KY Route 588 and KY Route 160 are Class "A" roadways that can accommodate trucks having a gross vehicle weight of up to 44,000 pounds (Kentucky Transportation Cabinet 2014).

A network of unimproved roads provide access to the subject property and to 14 natural gas wells located throughout the subject property. A natural gas compressor station is located along the western portion of the property and a small crude oil well is located near the northern extent of the property.

A model airplane landing strip and small pavilion are located near the center of the subject property. A small open shed structure is located to the north of the landing strip. The purpose of this structure is not known, but old windows and doors were observed inside.

To the east of the open shed is the Meade family compound. The compound contains several structures including two small concession buildings that contained tables and chairs, a small house that was not accessible at the time of inspection, a large open pavilion with a food preparation area and bandstand, and

modern and primitive restroom buildings. The modern restroom building was also not accessible at the time of inspection. There is electricity in the compound and two transformers were observed on the property.

2.5 Current Uses of Adjoining Properties

Areas to the north of the subject property are largely forested but also support residential and agricultural uses. To the east are residences, a small market, and a railroad. Portions of the railroad were observed to be unmaintained and it is assumed that the railroad is no longer in use. To the south there is some agricultural activity and isolated residences, however, the area is largely forest as are areas to the west.

2.6 Physical Setting

The following sections describe the environmental setting of the subject property and include information on climate, topography, geology, soils, surface water, and groundwater.

2.6.1 Climate

The subject property is located in the Eastern Kentucky Coal Field Region. This region experiences mild spring and autumn weather, but temperatures rise to 90 degrees Fahrenheit (°F) an average of 20 days per year (Arnold 2015). The Kentucky climate is characterized by warm summers, with average high temperatures in the mid-80s, and cool winters, with average low temperatures in the high-30s to mid-40s.

Kentucky experiences average annual precipitation ranging from over 40 inches in far northern Kentucky to more than 50 inches in south-central Kentucky. Precipitation tends to be well distributed throughout the year, though the fall is typically a bit drier than other seasons. Weather producing extremes of precipitation can develop quickly or persist for extended periods. Flash floods, usually resulting from intense but short lived thunderstorms or from storms training over an area, occur throughout Kentucky, but are a particular concern in the rugged terrain of eastern Kentucky, which is characterized by steep slopes and narrow valleys. Drought occurs periodically in Kentucky. When it does, it is often accompanied by oppressive heat (Foster no date [n.d.]).

2.6.2 Topography

The topography at the subject property has been significantly impacted by mountaintop removal coal mining that occurred. According to mining permits issued for the site, mining activity occurred in the late 1960s and continued in varying degrees of intensity until the early 1990s. A plateau resulting from mining has replaced a mountain ridge in the central portion of the subject property. This change has not been accounted for on United States Geological Survey (USGS) topographic maps; however, the highest point and lowest points of the subject property remain unchanged. The highest elevation is located in the southeastern portion of the subject property at an elevation of approximately 1,850 feet above mean sea level (AMSL). The lowest elevation on the subject property is approximately 1,035 feet AMSL, located in the northwestern portion, adjacent to the North Fork of the Kentucky River.

2.6.3 Geology

Pennsylvanian age sedimentary sandstones, siltstones, and shales of the Breathitt Formation characterize the surface geology of the subject property. The major formations below the Breathitt Formation (in order of occurrence) are the Lee Formation, Pennington Formation, Newman Limestone, Grainger Formation, and the Chattanooga Shale. The principal mineral resources in the vicinity of the subject property are bituminous coal (Breathitt Formation) and natural gas (Chattanooga Shale). The natural gas bearing strata is over 3,000 feet below the subject property (Letcher County Planning Commission n.d.).

The Fire Clay coal seam (approximate elevation 1,460 feet) is the principal seam of economic significance in the vicinity of the subject property. Surface mining in this seam created the relatively flat topography on the subject property. The site is unusual for Letcher County because most mountaintop removal operations in the county are underlain by extensive underground mines (Letcher County Planning Commission n.d.). However, at the subject property, the Whitesburg Coal Zone (approximate elevation 1,300 feet) is too thin to be of economic importance. Further, the next significant coal seam down column, the Elkhorn No. 3 (approximate elevation 1,100 feet), is below drainage at the site. The relative thinness of the seam (6 inches to 4 feet thickness) and its location below drainage make coal resources within this seam costly to recover. The lack of existing deep mines in the Elkhorn No. 3 seam in the vicinity of the subject property suggests that this seam is currently uneconomical to mine (Letcher County Planning Commission n.d.).

2.6.4 Soils

The three most common soils on the subject property are the Cloverlick-Kimper-Highsplint complex (30-65 percent slopes), the Kaymine, Fairpoint and Fiveblock soils map unit (2-70 percent slopes), and the Shelocta-Highsplint (30-65 percent slopes). To a lesser degree the following soils underlie the subject property: Allegheny Loam (2-25 percent slopes), Dekalb-Gilpin-Rayne complex (25-65 percent slopes), Fiveblock and Kaymine soils (0-30 percent slopes), Gilpin-Shelocta complex (12-25 percent), Grigsby sandy loam (occasionally flooded), Grigsby-Urban land complex (0-6 percent slopes), Urban land-Udorthents complex (0-15 percent slopes), and Urban land-Udorthents-Grigsby complex (0-6 percent slopes) (Natural Resources Conservation Service [NRCS] 2013).

The subject property contains a small area of soils designated as farmland of statewide importance (NRCS 2013). The soil is Allegheny Loam and is located in the floodplain of the North Fork of the Kentucky River in the northernmost portion of the subject property. None of the soils associated with the subject property are listed as hydric by NRCS.

2.6.5 Surface Water

The subject property is situated on top of a plateau, which is the result of mining a portion of the mountain. As a result of the mining, the hydrology of the subject property has been greatly disturbed.

Approximately 3.1 acres (1.3 hectares) of wetlands have been delineated on the subject property. The majority of the wetlands are located within the east and west sides of the south-central portion of the subject property (TEC Inc., 2011; Cardno 2014).

There are several small ephemeral, intermittent, and perennial unnamed streams identified and mapped on the subject property. Additionally, an open water wetland (pond) comprising approximately 0.41 acres (0.17 hectares) is located along its eastern boundary, north of Rise Branch.

The subject property is not located in a 100-year floodplain (Environmental Data Resources [EDR] 2015a).

2.6.6 Groundwater

There are no groundwater wells on the subject property, but there is a single domestic household well located north of the subject property at an elevation of 1,200 feet with a depth to water of 80 feet. Groundwater flow tends to follow the slope topography and is assumed to flow towards the north, east, and west of the subject property toward North Fork Kentucky River, Kings Creek, and Tolson Branch, respectively. Variations in groundwater conditions are expected based on location and elevation across the subject property, seasonal conditions, and weather patterns. The subject property is underlain by the Breathitt Group, which is comprised of the Pikeville Formation and the Hyden Formation, and the Four Corners Formation. The Breathitt Group yields more than 500 gallons per day in more than three-quarters of the wells drilled in valley bottoms, more than 500 gallons per day in about three-quarters of the wells on hillsides, and more than 100 gallons per day to nearly all wells on ridges within Letcher County (Kentucky Geological Survey, University of Kentucky 2015). There are no sole source aquifers underlying the subject property (United States Environmental Protection Agency [USEPA] 2013).

The quality of the groundwater in Letcher County ranges from moderately hard in most of the county to moderately soft south of Pine Mountain. Naturally occurring contaminants present in the groundwater consist of sulfate, salt (sodium chloride), iron, and manganese (Kentucky Geological Survey, University of Kentucky 2015). Groundwater sample data compiled by the Kentucky Division of Mine Permits indicate that groundwater pH is at or near neutral (i.e., 7) and ranges between 6.4 and 8 with sulfate concentrations ranging between 24 and 340 (no units given) (Kentucky Division of Mine Permits 2015). Sulfate does not have a health-based drinking water standard, however, the USEPA has established a nonenforceable secondary standard of 250 mg/L (parts per million).

According to the Kentucky Division of Water, Groundwater Branch, Letcher County has areas of moderate and high sensitivity to groundwater pollution. The hydrogeologic sensitivity reflects the ease and speed with which a contaminant can move into and within a groundwater system. The hydrogeologic sensitivity of Letcher County has been assigned a value of three out of five, with five being the most susceptible to groundwater pollution and one being the least susceptible. The region is given a three due to the observation that subcutaneous drains and enlarged fractures influence groundwater recharge, fissure networks influence flow, and bidirectional dispersal patterns influence overall dispersion (Kentucky Department of Environmental Protection 1994).

3 USER PROVIDED INFORMATION

3.1 Environmental Liens or Activity and Use Limitations

No information on environmental liens or activity and use limitations were provided by the user.

3.2 Specialized Knowledge

No specialized knowledge about the subject property was provided by the user.

3.3 Valuation Reduction for Environmental Issues

No information on valuation reduction for environmental issues was provided by the user.

3.4 Owner, Manager, Occupant Information

The subject property is currently comprised of nine separate parcels with eight property owners. Current property owners are listed in Table 1.

4 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the property. Reasonably ascertainable information from standard environmental and historical record sources is reviewed for the subject and surrounding properties. The objective of consulting historical sources is to develop a history of the previous uses of the property and the surrounding area in order to help identify the likelihood of past uses having led to RECs in connection with the property. Some standard historical sources may be excluded if the sources are not reasonably ascertainable, or if past experience indicates that the sources may not be sufficiently useful, accurate, or complete in terms of satisfying the objectives.

4.1 Title Records

Title records for the subject property were reviewed at the Whitesburg Courthouse on Tuesday, July 21, 2015 and are summarized in Table 2. Title search or assessor records review back to the first developed use or to 1940, whichever is earlier.

Table 2. Deed History of Subject Property Parcels

APN	Owner	Deed	Date Purchased
	(Current owner shown in bold)	Book/Page	
044-00-00-049.00	Ira Frazier	71/7	March 26, 1926
	Ira and Rosa Hogg	Q/164	1892
044-00-00-073.00	Mitchum Whitaker	337/537	January 16, 1998
	Jeff and Tommie Whitaker	336/578	November 13, 1945
044-00-00-076.00	Richard Isom Trust III	385/537	August 21, 2005
	Edward Day	268/505	August 10, 1982
	Mineral Development Corporation	116/568	September 30, 1946
	Joseph Altemus	No data	July 15, 1901
	Virginia Stamper	263/263	December 10, 1983
	Birchil Stamper	No data	June 11, 1964
	Gregory Fleenor and Jackie Todd Crabtree	268/514	December 7, 1983
	Annabelle Ratliff	132/247	April 26, 1948
	Duncan Hampton	No data	No Date
044-00-00-043.00	Lee Gentry Jr.	155/163	October 17, 1958
	Kingdon and Rachel Frazier	87/266	February 25, 1935
044-00-00-043.00	Lee Gentry Jr.	357/238	November 30, 2001
	Maurice and Caretta Brashears	222/226	October 8, 1976
	Virginia Stamper	166/534	June 11, 1964
	Kingdon Frazier	142/261	April 16, 1953
	Nora and Hiram Frazier	87/266	February 25, 1935

Table 2. Deed History of Subject Property Parcels

APN	Owner	Deed	Date Purchased
	(Current owner shown in bold)	Book/Page	
044-00-00-037.00	Sandra Creech	264/449	October 14, 1982
	Irvin Ison, Rhoda Ison and Carlos Ison	102/261	November 21, 1941
	George and Vina Caudill, Ollie Fields,	103/103	June 10, 1939
	G.M. Fields		
044-00-00-039.00	Carlos Isom	264/454	October 14, 1982
	Irving and Eva Isom	102/261	November 21, 1941
	George and Vina Caudill and Ollie and	103/103	June 10, 1939
	G.M. Fields		
044-00-00-077.00	Rondall and Sharon Meade	200/695	June 6, 1973
	Nathan and Delcie Hall	193/287	June 18, 1971
	Nora and Kingdon Frazier	87/266	February 25, 1935
044-80-00-003.00	Thomas Stahl	312/28	October 25, 1993
	CMH Homes Incorporated	307/106	November 14, 1992
	Doug Lee and Patty Sue Gentry	275/731	August 5, 1985
	Andrew Jackson and Geneva Gentry	134/283	November 26, 1949
	S.R. and Lula Gentry	95/153	September 10, 1938

A review of the Kentucky Coal Mine Map Viewer and Information System as well as the Kentucky Surface Mining Viewer provided information regarding mining permit holders for the subject property. Mining permit holders are summarized in Table 3.

Table 3. Mining Permit Holders of Subject Property

State File/		
Permit Number	Permittee	Year
575876X	KY Carolina Coal Company	1977
13652	Triple G and T Coal Company	1978
0670105	Richard Isom	1982
8674008	C and C Coal Company	1986
8675055	Highland Resources	1987
8675062	Big Oak Coal Company	1987
8670298	Meade and Shepherd Coal Company	1989

4.2 Standard Environmental Record Sources

Documents reviewed for the preparation of this report included the search results of federal and Commonwealth of Kentucky environmental records databases, USGS 7.5 minute quadrangle historical topographic maps, historical aerial photographs, and Sanborn fire insurance maps.

Environmental Data Resources, Inc. (EDR) was contracted to prepare a GeoCheckTM Report to identify potential sources of contamination at the subject and adjacent properties (EDR 2015a). The GeoCheckTM Report was derived from the search of federal and Commonwealth of Kentucky environmental database records for the subject and adjacent properties. The report was prepared to meet, at a minimum, the

government records search requirements of ASTM E 1527-13. EDR also provided the USGS 7.5 minute quadrangle historical topographic maps, historical aerial photographs, and Sanborn maps.

Table 4 lists the ASTM-required search databases, the distance searched per database, and the associated results. Due to the size of the parcel being investigated, minimum search distances were extended one-quarter mile to ensure complete coverage for the multi-parcel subject property. Appendix C contains the GeoCheckTM Report, including the list of searched databases (ASTM-required as well as supplemental databases), database descriptions and results, dates when updates were made, specified search distances, and maps.

Three of the numerous databases searched, the Kentucky State Hazardous Waste Sites (KY SHWS), Kentucky Underground Storage Tank (KY UST), and KY SPILLS databases, contained information relevant to the subject property.

The KY SHWS database is Kentucky's equivalent to federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLIS). These sites may or may not already be listed on the CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. One KY SHWS was reported to be located over 1 mile from the subject property. The Kentucky West Virginia Gas Pipeline (well line W-837) is located 1.215 miles north-northwest of the subject property. According to the report, this gas line has been closed and the site restored. Therefore, it would not have any impact on site conditions at the subject property.

The KY UST database contains information regarding UST's regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) that must be registered with the commonwealth. Two registered USTs were reported to occur within 0.125 mile of the subject property. The Lee Gentry property, located at Highway 588 West, approximately 0.014 mile north-northeast of the subject property, was reported to contain a 560-gallon diesel UST and a 1,000-gallon gasoline UST. The USTs were reportedly removed in March 1998. This property is located at a lower elevation than the subject property and consequently, would not have an impact on site conditions at the subject property. The John W. Ison Grocery, located at 14858 Highway 160, approximately 0.115 miles east of the subject property, was reported to contain one 1,000-gallon, one 2,000-gallon, and two 3,000-gallon gasoline USTs. The 1,000-gallon and 2,000-gallon USTs were reportedly removed in July 1994 and the 3,000-gallon USTs were reportedly removed in January 2014. This property is located at a lower elevation than the subject property and consequently, would not have an impact on site conditions at the subject property.

The KY SPILLS database is a listing of spill and/or release related incidents. One spill was reported to have occurred within 0.25 mile of the subject property in 2004. According to the report, a coal company was oiling a haul road resulting in soil contamination on the site. The incident was reported as being in compliance. As a result, the spill would not have any impacts on the subject property that would constitute a REC.

Table 4. Federal and Kentucky Records – EDR Report ASTM Standard Radius Search

	Search Radius	Number of Sites
Database	(miles)	Identified
FEDERAL	<u> </u>	
NPL	1.25	0
Proposed NPL	1.25	0
Delisted NPL	1.25	0
NPL liens	0.25	0
CERCLIS	0.75	0
CERCLIS-NFRAP	0.75	0
FEDERAL FACILITY	0.75	0
CORRACTS	1.25	0
RCRA-TSDF	0.75	0
RCRA-LQG	0.5	0
RCRA-SQG	0.5	0
RCRA-CESQG	0.5	
ERNS	0.25	0
KENTUCKY	,	
KY SHWS	1.25	1
KY SWF/LF	0.75	0
KY SB139	0.75	0
KY PSTEAF	0.75	0
INDIAN LUST	0.75	0
KY UST	0.5	2
INDIAN UST	0.5	0
FEMA UST	0.5	0
KY ENG CONTROLS	0.5	0
KY INST CONTROLS	0.75	0
KY VCP	0.75	0
INDIAN VCP	0.75	0
KY BROWNFIELDS	0.75	0
US BROWNFIELDS	0.75	0
DEBRIS REGION 9	0.75	0
ODI	0.75	0
KY HIST LF	0.75	0
KY SWRCY	0.75	0
INDIAN ODI	0.75	0
US CDL	0.25	0
KY CDL	0.25	0
US HIST CDL	0.25	0
HMIRS	0.25	0
KY SPILLS	0.25	1

Source: EDR 2015a.

Note: See Appendix C for the complete report, including explanation and description of acronyms.

4.3 Additional Environmental Record Sources

A list of the additional records sources reviewed/searched during the preparation of this Phase I ESA is provided in the EDR Radius Map report contained in Appendix C. Only one additional database, the

Mines Master Index File (US MINES), contained information regarding the subject property. The US MINES database contains mine identification numbers issued for mines active or opened since 1971. The data also includes violation information. According to the database, 20 mines are located on or within a half mile of the subject property.

4.3.1 Building Permit Records

The complete collection of building permit data available to EDR was searched, and as of June 16, 2015, EDR did not have access to building permits for the municipality in which the subject property is located.

4.3.2 Tax Map

EDR performed a search of available property tax maps for the subject property and identified was no tax map coverage for the area including the subject property.

4.4 Historical Use Information of Subject Property and Adjoining Properties

4.4.1 Historical Topographic Maps

Historical USGS topographic maps are useful for identifying historical land uses in an area, including road networks, development, and agricultural uses and other land use designations. The results of the review of USGS data from historical topographic maps for the years available are presented in Table 5. Copies of the referenced maps are contained Appendix D.

Table 5. Historical Topographic Maps Reviewed

USGS 7.5' Quadrangle Date				
		Details Observed		
Whitesburg	1915	On the 1915 topographic map, several residences can be seen on the subject property and are located adjacent to streams and surface waters. School No. 6 is located along the western boundary of the subject property.		
Roxana	1954	On the 1954 topographic map, several residences still appear along the streams and surface waters on and adjacent to the subject property. Several areas have been cleared of forest. School No. 6 has been renamed Tolson School and a cemetery is located at the northern end of the subject property. Route 160 has been improved and extended to the west of the subject property		
	1976	The 1976 topographic map looks similar to the 1954 topographic map.		

Source: EDR 2015b.

4.4.2 Historical Aerial Photos

Photographs taken from an aerial platform with sufficient resolution to allow for the identification of development and activities occurring on the subject property and adjoining properties were obtained from EDR and reviewed. The results of the review of the historical aerial photographs for the years available are presented in Table 6. Copies of these aerial photographs are contained in Appendix E.

Table 6. Historical Aerial Photos Reviewed

Date	Details Observed
	In the 1952 aerial photograph, the northern portion of the subject property appears to support
1952	agricultural uses. Some mining activity and disturbed and cleared areas are visible in two
	areas in the center and southeast corner of the subject property.
	In the 1983 aerial photograph, a very large area of disturbance is visible near the center of the
1983	subject property. Several narrow and sinuous areas of disturbance are visible across the
	subject property and coincide with area topography.
	In the 1988 aerial photograph, the disturbed areas near the center and throughout the subject
1988	property have been greatly expanded. Large and sinuous swaths of disturbance are visible
	across the subject property and coincide with site topography.
	The 1991 aerial photograph is limited to the southeast portion of the subject property. A very
1991	large area of disturbance is visible in the photograph where entire slope sides appear to have
	been disturbed and artificially contoured.
	The center of the subject parcel is largely deforested in the 1995 aerial photograph, and a
1995	small pond and building are visible. Although this area is quite disturbed it appears to be
1993	revegetating as is the artificially contoured area in the southeast portion of the subject
	property. Several buildings are visible on the southeast portion of the subject property
	In the 2008 aerial photograph, the central area of the subject parcel is still deforested and
2008	disturbed and may support agricultural uses. Several unimproved roads radiate from this area
2008	and terminate in forested areas. The southeast corner of the subject property is becoming
	reforested and may also support agricultural uses.
	In the 2010 aerial photograph, the central area of the subject property appears to be used
2010	more heavily for agricultural purposes, as does the area the southeast. The unimproved roads
2010	noted in the 2008 aerial photo are still visible and there appears to be less vegetation around
	them. The remainder of the subject property appears to be more forested.
2012	The 2012 aerial photograph appears the same as the 2010 photograph.
Source: Fl	DB 2015a

Source: EDR 2015c.

4.4.3 Sanborn Maps

The complete holdings of the Sanborn Library, LLC collection were searched by EDR with regard to the subject property, and no fire insurance maps covering the subject property were found (EDR 2015c).

4.4.4 City Directories

A City Directory Report for the subject property was provided by EDR. City Directories are reviewed to evaluate the potential liability of the subject property resulting from past activities. The EDR City Directory Report includes a search of available city directory data at 5-year intervals. Cole Information Services Directories were searched for the years 1992, 1995, 1999, 2003, 2006, and 2013. The subject property and adjoining property addresses and property owners were not listed for any of the years searched. One church on Highway 160, Premium Baptist Mission, was listed in the 1995 city directory. Several properties were listed on Highway 160 for the years 1999, 2003, 2006, and 2013. The majority of the properties were residences; the non-residential properties are listed in Table 7.

None of the properties listed in Table 7 are located upgradient or adjacent to the subject property. Therefore, they would have no impact on conditions of the subject property. A copy of the city directory search results is contained in Appendix F.

Table 7. City Directory Results

City Directory Year	Address	Business/Use
	12816 Highway 160	Meade and Shepherd Coal Company
	10899 Highway 160	Pats Parts and Pawn Shop
1999	8978 Highway 160	Kings Creek Senior Center
1999	6828 Highway 160	R&R Automotive and Machine
	4014 Highway 160	Premium Baptist Church
	3752 Highway 160	US Post Office
	12843 Highway 160	Country Style In
	12816 Highway 160	Meade and Shepherd Coal Company
2003	11010 Highway 160	Meade and Son Trucking
		Pats Pawn
	8978 Highway 160	Kings Creek Senior Center
	12816 Highway 160	Meade and Shepherd Coal Company
	11010 Highway 160	Kings County Volunteer Fire Department
2006	10941 Highway 160	Days Engine Service
	8978 Highway 160	Kings Creek Senior Center
	8562 Highway 160	LDTM Incorporated
	12816 Highway 160	Meade and Shepherd Coal Company
	12023 Highway 160	Kings Creek Community Church
2012	11010 Highway 160	Pats Pawn
2013	8978 Highway 160	Kings Creek Senior Center
	8881 Highway 160	Roxana Specialized Haulers Incorporated
	1 Highway 160	Enterprise Coal Company
Source: EDP 2015d	•	

Source: EDR 2015d.

5 SITE RECONNAISSANCE

The objective of the site reconnaissance is to obtain information indicating the likelihood of RECs in connection with the property that may not be obvious to the owner/occupants

5.1 Methodology and Limiting Conditions

The Cardno staff visited the subject property on July 20 and 21, 2015 and conducted site reconnaissance to identify visible evidence of potential environmental contamination. Specifically, the ESA team looked for evidence of previous contamination such as:

- stained surface soils or distressed vegetation
- disturbed surface soils or reclaimed areas
- discarded containers, residues, and pools of liquid
- electrical equipment such as transformers and capacitors
- aboveground storage tanks (ASTs), USTs, piping, sumps, or other types of impoundment structures
- abandoned structures and associated utilities
- drainage structures and direction of stormwater runoff on the subject parcels and adjacent areas.

The survey involved visually inspecting the subject property and the adjoining properties to the extent that these properties were readily accessible during the time of the visual inspection. Cardno staff

members inspected the subject property and conducted interviews with persons who were knowledgeable about the historical and current use of the subject property. A complete set of photographs from this inspection is provided in Appendix B and interview forms are provided in Appendix G.

5.2 General Site Setting

The subject property site is located in a mountainous area of eastern Kentucky and was historically subject to mountain top mining activity that has resulted in a large, relatively flat area near the center of the subject property. The subject property is primarily forested, with small single-family residences in the area. There are also several state parks and nature preserves within the area as well as active coal mines.

5.3 Exterior and Interior Observations

The subject property currently supports several uses including natural gas and oil extraction, remote control model aircraft launches, and recreational uses such as concerts and hunting. Several structures are located near the center of the subject property. A small pavilion is located near a small paved area used by the Mountain Flyers for launching remote controlled model aircraft. A small fire extinguisher was observed on a table under the pavilion. An empty 50-gallon drum and a second drum that was used as a trash receptacle were observed outside of the pavilion. The receptacle was equipped with a bear deterring lid. An old charcoal grill and a plastic container filled with sand and gravel was also observed near the pavilion.

To the north of the pavilion is an open wooden structure. The purpose of the structure was undetermined but it may have served as a concession booth or judges booth for the remote control airstrip. Inside, old windows, a door and a metal bed frame were observed. Household trash and debris was also observed in the structure.

To the east of the open structure is the Meade family compound. This fenced in area contained several structures and is used to host family reunions, concerts, and other social events. Farm equipment was also stored within the compound. The farm equipment appeared to be in working condition and was not observed to be leaking oil or grease.

In the northwest corner of the compound, three wooden buildings were observed. Two appeared to be for concessions and one appeared to be a small residence or office. The concession buildings contained folding tables and chairs and other debris. The interiors were not painted. These buildings did not have electricity, running water, or heat. Bird nests were observed in the roof rafters. A 50-gallon drum containing household trash was observed outside the northernmost concession building.

To the north of the concession buildings is the residential/office building. There was no access to the interior of the building. The wooden building was equipped with a rain barrel, and electrical lines to the building were observed. A metal pipe was also observed outside of the building. This pipe did not appear to be a fill or vent pipe or associated with a UST. Outside of this building a large, red, steel barrel with a hand pump was observed. The barrel contained liquid with a strong petroleum odor. There were no signs of leaks or spills on or around the barrel. As such, the barrel is considered to be an Environmental Concern.

In the center of the compound a large fire pit was observed. The fire pit contained household trash.

Along the eastern portion of the compound is a large wooden pavilion and band stand. A flatbed truck and a tractor were observed under the pavilion as well as an assortment of refrigerated cases, coolers, and

food preparation equipment. All cases and coolers were empty at the time of the site inspection. Several picnic tables, plastic chairs, and wooden benches were also observed under the pavilion. Near and under the bandstand area, children's toys, aluminum gutters, and building debris was observed.

At the southwest corner of the building two restroom facilities were observed. The eastern facility was of modern cinderblock construction and was divided into men's and women's facilities. Vent piping was observed in the rear of the facility. There was no access to the interior of the building. The second restroom facility was a wooden structure with primitive pit facilities. The building was divided into men's and women's facilities and contained two pits per side. The facilities appeared to be in disuse and were in disrepair.

Two transformers were observed near the Meade family compound. One appeared to be newer and the second appeared to be much older and was heavily rusted. Placards were visible on the older transformer but only the number 25 was visible. This transformer did not appear to be in service. Until proven otherwise, these transformers are assumed to contain polychlorinated biphenyls (PCBs) and are considered RECs.

To the north of the Meade compound, remnants of a manufactured home were observed. All that appeared to remain of the structure were flooring support beans and skirting. Ductwork and insulation could also be observed.

To the north of the Meade compound a gravel road extends northward to an oil pumping station and storage tank and a natural gas pipeline relay station. The oil pump was recently installed and was not observed during previous field surveys conducted on the subject property. No oil or staining was observed around the pumps or storage tank. The storage tank was contained within an earthen berm and was placarded as containing petroleum crude oil. No liner was observed beneath the tank. Drain piping for the berm was observed to be uncapped and likely due to the heavy rains that had moved through the area in the previous weeks. Because the drains were not capped and present a material threat of release, the oil storage tank is considered to be a REC.

A natural gas compressor station was observed to the west of the Meade compound. The station is situated on a concrete slab with a shallow trough around the perimeter for spill containment. Two large steel fuel ASTs power the station. One is elevated and the second, larger tank is on a gravel surface and has no secondary containment. No spills or stains were observed around these tanks. Several fuel storage tanks were observed in association with the compressor station. A large spill was observed beneath a large valve and absorbent pads had been placed on the ground to absorb the oil; however, oil globules were observed in puddles near the valve. Several oil-stained areas were also observed around the compressor station, particularly in areas where piping was observed. On the north side of the compressor was an open topped, 50-gallon, plastic barrel and an open-topped 5-gallon bucket that contained liquid with strong petroleum odors. Because the barrel and bucket had no lids or were not placed within any spill containment, they present a material threat of release. The spill, stains, and open containers are considered to be RECs. A large container of antifreeze was also observed near the compressor. No leaks or stains were observed in association with this container.

Approximately 50 yards south of the compressor station is a large steel oil tank. A small (i.e., quarter sized) dark stain was observed beneath a valve at the bottom of the tank. The storage tank was contained within an earthen berm. No liner was observed beneath the tank. Due to the relatively small size of the stain the release is considered to be a *de minimis* condition.

Approximately 1,000 feet east of the compressor station, a large plastic oil storage tank was observed. The tank cap had been removed and the top had caved in allowing the contents to spill out. Dark stains, assumed to be from petroleum, were observed on and around the tank. The tank, which was observed to be contained within a lined berm, is considered a REC.

Several natural gas collection and relay systems were observed across the site, but no staining or other environmental concerns were observed to be associated with them.

At the southeast portion of the site, access roads appeared to have been recently installed. Since this area has already been mined, it is assumed that the roads are for logging purposes. It also appeared that some oil and gas equipment had been removed from the area. Debris such as steel cable was observed but no staining or other concerns were observed.

6 INTERVIEWS

The objective of the owner/occupant interviews is to obtain information indicating the likelihood of RECs in connection with the property. In the case of abandoned properties, where there is evidence of potential unauthorized uses of the abandoned property or evidence of uncontrolled access to the abandoned property, interviews with one or more owners or occupants of neighboring or nearby properties are conducted.

6.1 Owners

Cardno interviewed Mr. Rondall Meade on July 21, 2015 with regard to the condition of the subject property. Mr. Meade is a current landowner of a large area of the subject property and worked there when it was being actively mined. For the purpose of this Phase I ESA he is considered to be the major occupant of the subject property. Mr. Meade had no knowledge of any land use restrictions, liens, chemical usage, or historic disposal activities on the subject property. All coal excavations were backfilled with overburden and all machinery used for mining was removed from the subject property. Mr. Meade had no knowledge of any material, other than soils and rock, being buried on the subject property and no remediation activities have occurred on the subject property.

6.2 Officials

Cardno interviewed Mr. Elwood Cornett, Chairman of the Letcher County Planning Commission, on September 3, 2015 regarding the subject property. According to Mr. Cornett, the property was subject to surface mining activity for the removal of coal ore. No processing of coal was conducted on the subject property. Coal ore was removed from the subject property and trucked elsewhere for processing. Mr. Cornett had no knowledge of any liens or use limitations associated with the site or of any hazardous materials being present, historically or currently, on the subject property.

6.3 Lessees

Cardno staff interviewed Mr. Clyde Roger Tyree, a director of the former Triple G and T Coal Company, on September 25, 2015 regarding the subject property. According to Mr. Tyree, the property was subject to surface mining activity for the removal of coal ore in the late 1970s and early 1980s. No processing of coal was conducted on the subject property. Coal ore was removed from the subject property and trucked elsewhere for processing. Fuel for the mining equipment was stored on-site in trailers and moved to wherever it was needed during mining operations. There was no designated storage area for petroleum,

oils, and lubricants. No wastes were disposed of or buried on the property and all machinery was removed when mining activity was completed.

Prior to the 1970s–1980s mining operations, the area was mined by the Boone Fork Coal Company in the 1960s. Attempts were made to contact personnel associated with this mining company and were unsuccessful.

7 EVALUATION

7.1 Findings

The results of the visual site inspection, record search, and interviews pertaining to the subject property are discussed below. These findings reflect conditions identified at the subject property or considered to have the potential to affect the subject property and include, but are not limited to, RECs, Controlled RECs, Historical RECs, and *de minimis* conditions as defined in ASTM E1527-13.

7.1.1 Red Steel Barrel

The large, red, steel barrel with a hand pump that was observed in the Meade family compound is determined to be an environmental concern. The barrel contained liquid with a strong petroleum odor; however, no evidence of leaks or spills was observed on or around the barrel. The contents of the barrel should be characterized, removed, and disposed of in accordance with applicable regulations.

7.1.2 Storage Tanks and Pipelines

Several large ASTs are located on the subject property. The storage tank to the north of the Meade compound is considered to be a REC due to the fact that the open drainage valve presents a material threat of release. The tank is associated with an active oil extraction operation and therefore must be assumed to contain petroleum crude oil, as placarded. The fact that bermed area is unlined is an environmental concern. Although no leaks or stains were observed at the oil pump near this AST, it is considered to be an environmental concern as it is a potential source of petroleum contamination.

A natural gas compressor station observed to the west of the Meade compound has experienced a release, and cleanup methods to address the leak were observed to be insufficient. The compressor station and surrounding soils are considered to be a REC.

Although no leaks or stains were observed around the larger steel fuel AST that powers the compressor station, it is considered be an environmental concern due to its lack of secondary containment and direct placement on the ground.

The open topped, 50-gallon, plastic barrel and a 5-gallon bucket observed on the north side of the compressor present a material threat of release of petroleum products and are considered to be RECs.

A small stained area was observed beneath a valve at the large steel oil tank located approximately 50 yards south of the compressor station. It is unlikely that this small release would prompt regulatory action and, therefore, it is considered to be a *de minimis* condition. However, the storage tank was contained within an earthen berm and no liner was observed beneath the tank. Therefore, the site, as a whole, presents an environmental concern.

The large plastic oil storage tank observed approximately 1,000 feet east of the compressor station is damaged and has released a portion of its contents. This AST is within a lined and bermed area; however, the condition of the liner is not known. This site is considered to be a REC.

7.1.3 Polychlorinated Biphenyls

The two transformers observed near the Meade family compound could not be discounted as containing PCBs. As such, these transformers are assumed to contain PCBs and are considered RECs.

7.1.4 Solid Waste

Several small receptacles containing solid waste and a fire pit where solid waste appears to be burned were observed on the property. These are considered to be environmental concerns.

7.2 Opinion and Recommendations

Based on information collected during the preparation of this report, a Phase II Environmental Site Assessment is recommended to confirm the absence/presence of hazardous materials or petroleum products at the compressor station and at the leaking AST observed to the east of the compressor station. The two transformers located on the property should also be investigated for PCBs. At a minimum, the following recommendations are made:

- A surficial soil sample should be collected from the open drain at the large AST located to the north of the Meade compound to ensure no petroleum has escaped from the bermed area
- Several surficial and subsurface soil samples should be collected in areas around the compressor station and open containers of petroleum products to determine the depth and extent of petroleum contamination. If groundwater is encountered, groundwater grab samples are recommended.
- Several surficial and subsurface soil samples should be collected in areas around the damaged plastic AST located approximately 1,000 feet east of the compressor station. Prior to sampling, the area should be assessed to determine the presence and effectiveness of any liners inside the bermed area. If groundwater is encountered, groundwater grab samples are recommended.
- If accessible, a soil sample should be collected near the base of the two pole-mounted transformers located near the Meade compound. If the area cannot be accessed safely, local utility providers should be contacted to determine the age and contents of the transformers.

7.3 Data Gaps

Two buildings within the Meade family compound were not accessible at the time of inspection. Because the contents of the two buildings could not be ascertained they are considered to be data gaps.

7.4 Conclusions

Cardno has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 of the subject property located in Roxana, Kentucky. Any exceptions to or deletions from this practice are described in Section 8.5 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property except for the following:

- The open drain at the large AST located to the north of the Meade compound
- The compressor station and surrounding soils and open containers of petroleum products

- The damaged plastic AST located approximately 1,000 feet east of the compressor station
- Two transformers located near the Meade compound

7.5 Limiting Conditions/Deviations

No substantial deviations from ASTM Practice E 1527-00 were involved with the preparation of this report. The subject property was characterized by steep slopes and thick undergrowth that limited access to many areas. All reasonable attempts were made to inspect the subject property to the fullest extent.

8 NON-SCOPE CONSIDERATIONS

8.1 Asbestos Containing Materials

No sampling for asbestos was conducted as part of this Phase I ESA. Based on review of historic aerial photographs, the structures observed on the subject property appear to have been constructed in the early 1980s and therefore are not likely to contain asbestos. It is unknown when the manufactured home, whose remnants were observed on the subject property, was manufactured. Therefore, this structure may contain asbestos.

8.2 Lead Based Paint

No sampling for lead based paint was conducted as part of this Phase I ESA. Based on review of historic aerial photographs, the structures observed on the subject property appear to have been constructed in the early 1980s and therefore are not likely to contain lead based paint. However, painted items of undetermined age were observed inside of the structure located to the north of the Mountain Flyers pavilion and may contain lead based paint.

8.3 Radon

Radon is a naturally occurring, colorless, odorless, radioactive gas produced by the decay of uranium in rock and soil. Radon is a known carcinogen, responsible for increasing the risk of lung cancer when inhaled. Electrically charged radon atoms can attach to indoor air dust particles. Subsequently these dust particles may be inhaled and adhere to the lining of the lungs. The deposited atoms decay by emitting radiation that has the potential to cause cellular damage. Typically outside air contains very low levels of radon (USEPA 2015), but tends to accumulate in enclosed indoor spaces. When present, radon gas would typically concentrate in relatively airtight buildings with little outside air exchange. The USEPA classifies Letcher County as having a moderate potential for radon intrusion (Zone 2). Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 picocuries per liter (pCi/L). The USEPA action level for radon is 4 pCi/L.

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10 CERTIFICATION

I declare, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) Part 312.

I have the specific qualifications based on education, training, and experience to assess the property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Erika A. Fuery

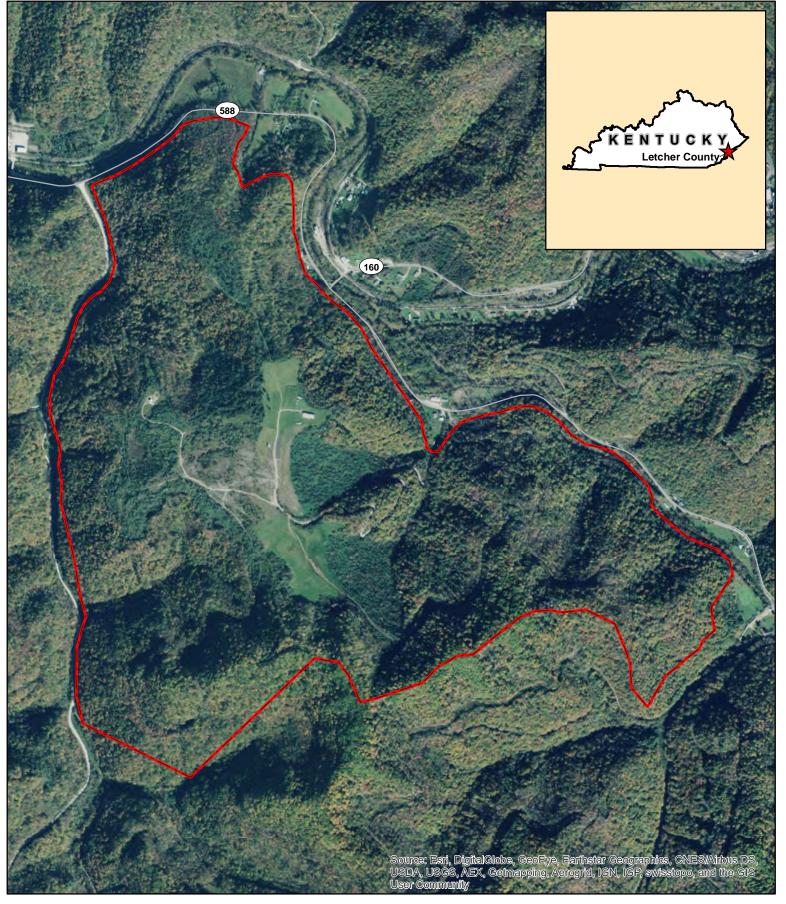
Environmental Scientist Cardno

October 8, 2015

Date

Appendix A: Figures

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Legend

Subject Property Boundary

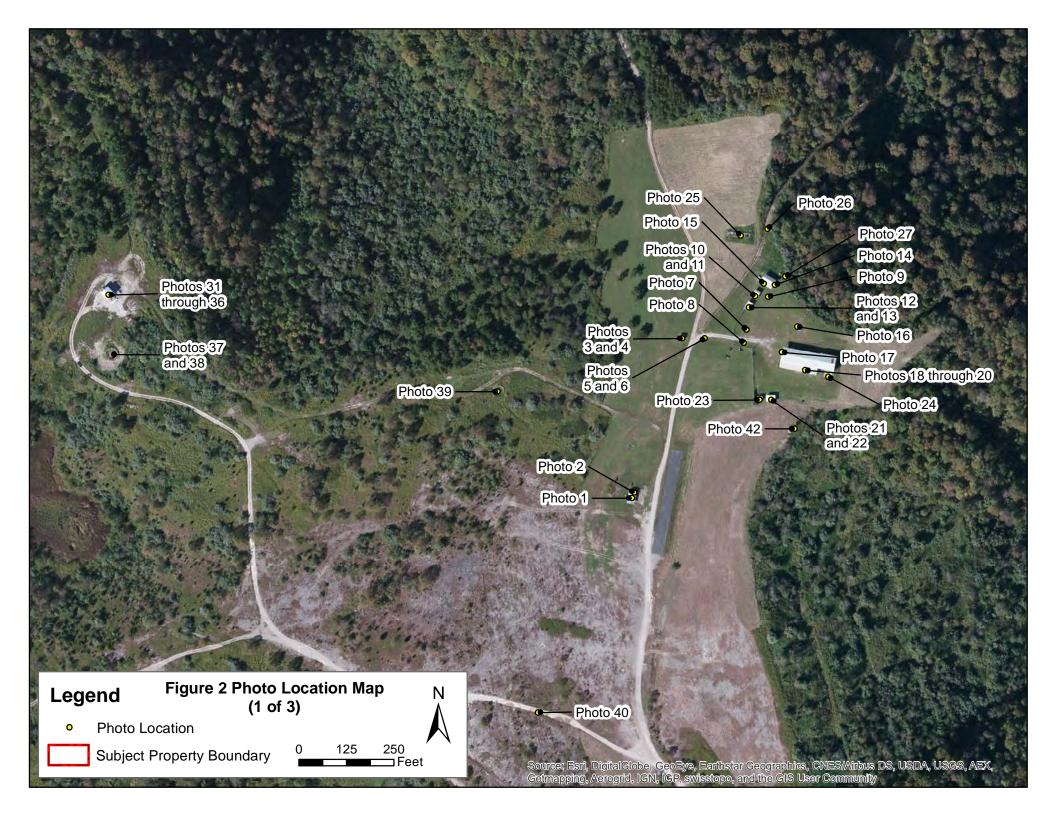
Figure 1. Subject Property Location Map

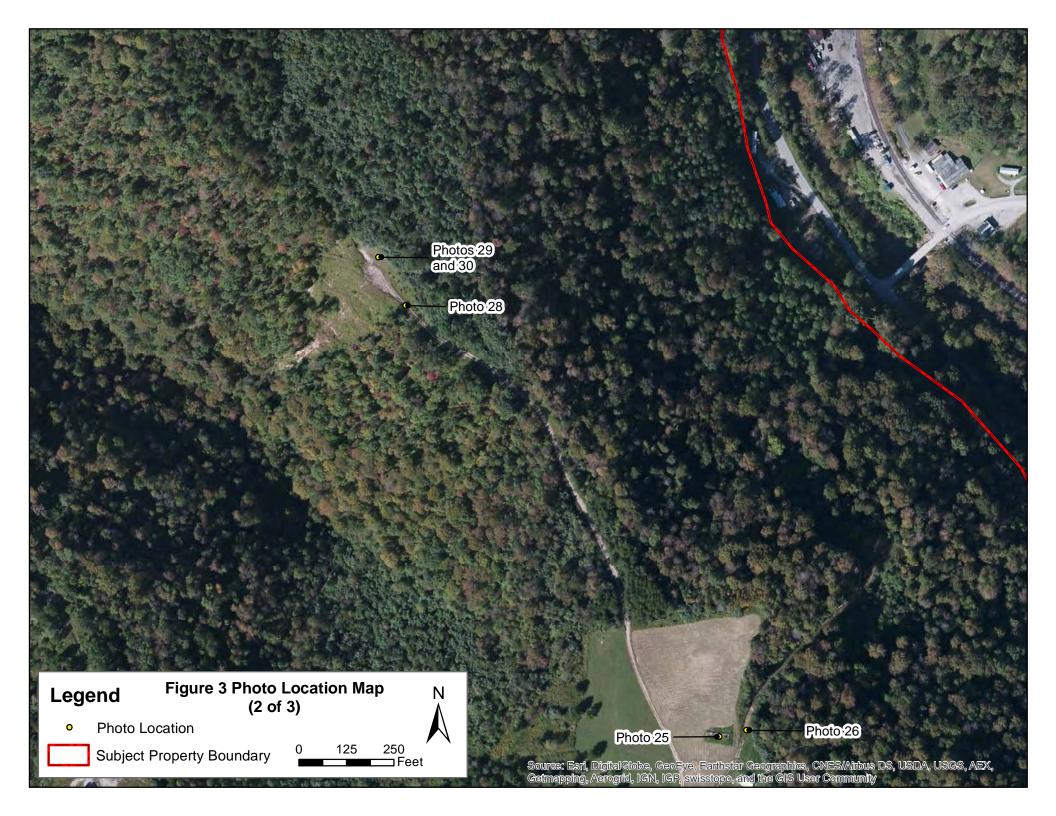
Road Classification

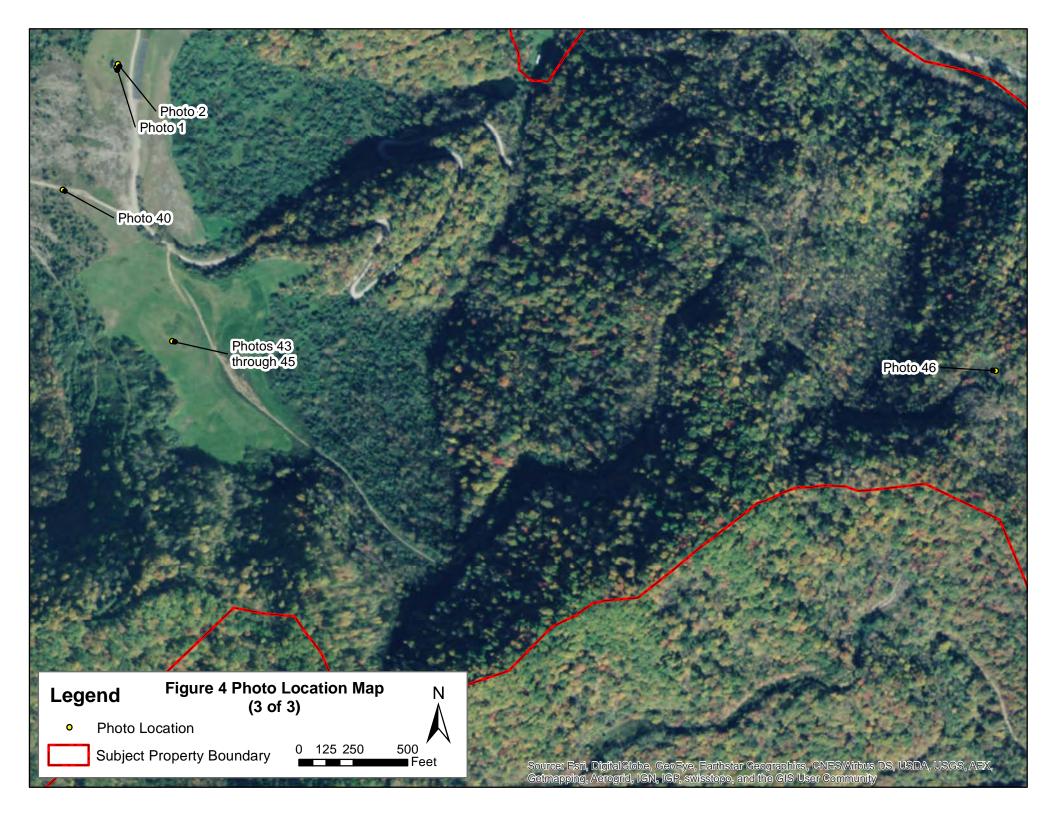
Local Road

0 0.25 0.5 Miles









Appendix B: Photographic Record

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Client: Federal Bureau of Prisons Location: Roxana, KY Job Number: 004253 Date: July 2015

Photo Number: 1

Description: Fire extinguisher

beneath Mountain Flyers pavilion



Photo Number: 2

Description: Mountain Flyers

pavilion and trash receptacles.





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 3

Description: Unknown structure north of

Mountain Flyers pavilion



Photo Number: 4

Description: Debris inside unknown

structure





Client: Federal Bureau of Prisons Location: Roxana, KY **Job Number:** 004253

Date: July 2015

Photo Number: 5

Description: Northern portion of Meade Family compound (looking

northeast)



Photo Number: 6

Description: Southern portion of Meade Family compound (looking northeast)





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 7

Description: Farm equipment inside

Meade family compound



Photo Number: 8

Description: farm equipment inside

Meade family compound.





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 9

Description: Two concession style

buildings in Meade family compound



Photo Number: 10

Description: Tables being stored

inside concession

building





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 11

Description: Chairs stored inside

concession building



Photo Number: 12

Description: Chairs and debris stored

inside concession building





Client: Federal Bureau of Prisons Location: Roxana, KY

Photo Number: 13

Description: Interior of concession

building.



Photo Number: 14

Description: Residence/office building

in Meade family compound





Client: Federal Bureau of Prisons

Date: July 2015

Location: Roxana, KY

Job Number: 004253

Photo Number: 15

Description: Steel barrel with oily liquid outside of

residential/office structure in Meade family

compound

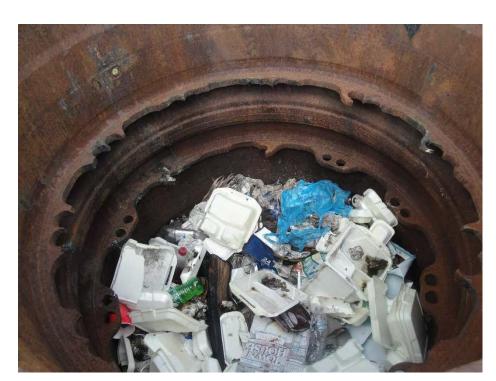


Photo Number: 16

Description: Household trash inside

fire pit in Meade family

compound





Client: Federal Bureau of Prisons Location: Roxana, KY **Job Number:** 004253

Date: July 2015

Photo Number: 17

Description: Flatbed truck in pavilion

in Meade family compound



Photo Number: 18

Description: Food preparation and

storage equipment in pavilion in Meade family

compound





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 19

Description: Food preparation and storage

equipment in pavilion in Meade family compound with tractor in

background



Photo Number: 20

Description: Food preparation and storage equipment in pavilion in Meade

family compound





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 21

Description: Exterior of modern

restroom facility



Photo Number: 22

Description: Vent piping behind modern

restroom facility.





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 23

Description: Interior of primitive

restroom facility



Photo Number: 24

Description: Debris beneath

pavilion bandstand





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 25

Description: Remnants of manufactured home north of

Meade family compound



Photo Number: 26

Description: Old, inactive transformer north

of Meade family campground





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 27

Description: Newer, active transformer north of Meade

family compound



Photo Number: 28

Description: Oil well pump and

storage tank near northern extent of subject property





Client: Federal Bureau of Prisons Location: Roxana, KY **Job Number:** 004253

Date: July 2015

Photo Number: 29

Description: Unlined berm area

around storage tank



Photo Number: 30

Description: Uncapped drain pipe





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 31

Description: Compressor station

looking northwest



Photo Number: 32

Description: Compressor station

fuel tank with no secondary containment





Client: Federal Bureau of Prisons Location: Roxana, KY **Job Number:** 004253

Date: July 2015

Photo Number: 33

Description: Release and ineffective spill

controls at compressor

station



Photo Number: 34

Description: Free product in puddle at

compressor station





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 35

Description: Open containers of oily liquid

at compressor station



Photo Number: 36

Description: Stained soil around

compressor station





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 37

Description: Storage tank in unlined berm area southeast of

compressor station



Photo Number: 38

Description: Small leak from storage tank valve





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 39

Description: Damaged and open AST

and stained soil approximately 1,000 feet east of compressor station. This AST is within an earthen berm that appeared to be lined.



Photo Number: 40

Description: Western view from center

of subject property





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015

Photo Number: 41

Description: Western view from

northern extent of subject

property



Photo Number: 42

Description: Eastern view from just

south of the Meade family compound





Client: Federal Bureau of Prisons

Job Number: 004253

Location: Roxana, KY

Date: July 2015



Photo Number: 43

Description: Southern view from

center of subject property

Photo Number: 44

Description: Eastern view from center

of subject property





Client: Federal Bureau of Prisons

Job Number: 004253 Date: July 2015

Location: Roxana, KY



Description: Northern view from center

of subject property



Photo Number: 46

Description: Debris at southeast extent of

property



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Appendix C: Radius Map

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Roxana 8218 Kentucky 160 Hallie, KY 41821

Inquiry Number: 4327237.2s

June 16, 2015

The EDR Radius Map™ Report with GeoCheck®

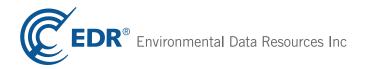


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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

8218 KENTUCKY 160 HALLIE, KY 41821

COORDINATES

Latitude (North): 37.1060000 - 37° 6' 21.60" Longitude (West): 82.9544000 - 82° 57' 15.84"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 326333.4 UTM Y (Meters): 4108215.2

Elevation: 1357 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37082-A8 ROXANA, KY

Most Recent Revision: 1976

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120629, 20120706

Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 8218 KENTUCKY 160 HALLIE, KY 41821

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	BIG OAK COAL COMPANY		US MINES	Higher	1 ft.
A2	MARIE ENTERPRISES IN		US MINES	Higher	1 ft.
3	LANCE COAL CORP		US MINES	Higher	1 ft.
4	MEADE & SHEPHERD COA		US MINES	Higher	1 ft.
B5	LEE GENTRY PROPERTY	HWY 588 W	UST	Lower	76, 0.014, NNE
B6	ROXANNE BP	US HWY 160 S	SB193	Lower	202, 0.038, NE
C7	BLACKEY ELKHORN COAL		US MINES	Lower	393, 0.074, SSW
C8	C & O COAL COMPANY I		US MINES	Lower	419, 0.079, SSW
9	JOHN W ISON GROCERY	14858 HWY 160	UST	Lower	608, 0.115, East
D10	FLEENOR INC	MILL BRANCH W/KY RT	NPDES	Lower	628, 0.119, NNW
D11	FLEENOR INC		US MINES	Lower	628, 0.119, NNW
D12	MILL BRANCH PROCESSI		US MINES	Lower	628, 0.119, NNW
D13	W & F CONTRACT AUGER		US MINES	Lower	628, 0.119, NNW
14			SPILLS	Lower	850, 0.161, WSW
E15	ASHER'S QUALITY COAL		US MINES	Lower	1501, 0.284, SSW
E16	ASHER'S QUALITY COAL		US MINES	Lower	1501, 0.284, SSW
17	SOUTH EAST COAL SALE		US MINES	Lower	1553, 0.294, East
18	WHITESBURG COAL INC		US MINES	Lower	1586, 0.300, ENE
19	MEADE & SHEPHERD COA		US MINES	Higher	1987, 0.376, SW
20	BUBS CONTRACTING INC		US MINES	Higher	2075, 0.393, North
21	COAL MOLE INC		US MINES	Higher	2171, 0.411, South
22	CLARK MINING, INC.		US MINES	Higher	2318, 0.439, North
F23	WHITESBURG COAL INC		US MINES	Higher	2532, 0.480, ENE
F24	LAKE COAL COMPANY IN		US MINES	Higher	2533, 0.480, ENE
25	K C COAL COMPANY INC		US MINES	Higher	2630, 0.498, SW
26	KENTUCKY WEST VIRGIN	NONE	SHWS	Lower	6415, 1.215, NNW

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal	NPI	sita	liet

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS	. Comprehensive Environmental Response, Compensation, and Liability Information System
	Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF...... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

LUCIS.....Land Use Control Information System Federal ERNS list ERNS..... Emergency Response Notification System State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Facilities List State and tribal leaking storage tank lists Facility Ranking List INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists INDIAN UST..... Underground Storage Tanks on Indian Land FEMA UST..... Underground Storage Tank Listing State and tribal institutional control / engineering control registries ENG CONTROLS..... Engineering Controls Site Listing INST CONTROL..... State Superfund Database State and tribal voluntary cleanup sites INDIAN VCP..... Voluntary Cleanup Priority Listing VCP..... Voluntary Cleanup Program Sites State and tribal Brownfields sites BROWNFIELDS..... Kentucky Brownfield Inventory ADDITIONAL ENVIRONMENTAL RECORDS Local Brownfield lists US BROWNFIELDS..... A Listing of Brownfields Sites Local Lists of Landfill / Solid Waste Disposal Sites Open Dump Inventory DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations HIST LF..... Historical Landfills Local Lists of Hazardous waste / Contaminated Sites US CDL..... Clandestine Drug Labs CDL..... Clandestine Drub Lab Location Listing US HIST CDL...... National Clandestine Laboratory Register Local Land Records LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

RCRA NonGen / NLR........ RCRA - Non Generators / No Longer Regulated

DOT OPS..... Incident and Accident Data DOD...... Department of Defense Sites FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

PADS...... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS...... Facility Index System/Facility Registry System RAATS...... RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

UIC......UIC Information DRYCLEANERS..... Drycleaner Listing

AIRS..... Permitted Airs Facility Listing

LEAD..... Environmental Lead Program Report Tracking Database

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

Financial Assurance Information Listing

COAL ASH...... Coal Ash Disposal Sites LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

EPA WATCH LIST..... EPA WATCH LIST

US FIN ASSUR..... Financial Assurance Information

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database COAL ASH DOE..... Steam-Electric Plant Operation Data 2020 COR ACTION...... 2020 Corrective Action Program List PRP..... Potentially Responsible Parties

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations EDR US Hist Cleaners...... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF...... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Uncontrolled Site Branch List.

A review of the SHWS list, as provided by EDR, and dated 03/25/2015 has revealed that there is 1 SHWS site within approximately 1.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KENTUCKY WEST VIRGIN Facility Status: Closed Facility Id: 1242	NONE	NNW 1 - 2 (1.215 mi.)	26	43

State and tribal leaking storage tank lists

SB193: The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

A review of the SB193 list, as provided by EDR, and dated 09/05/2006 has revealed that there is 1 SB193 site within approximately 0.75 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROXANNE BP	US HWY 160 S	NE 0 - 1/8 (0.038 mi.)	B6	9
Facility Id: 6892067				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Owner/Facility Report of All Tanks Regardless of Status list.

A review of the UST list, as provided by EDR, and dated 02/04/2015 has revealed that there are 2 UST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LEE GENTRY PROPERTY Closed In Place Date: 03/19/1997 Tank Status: TRM Facility Id: 59894	HWY 588 W	NNE 0 - 1/8 (0.014 mi.)	B5	8
JOHN W ISON GROCERY Tank Status: TRM Facility Id: 59891	14858 HWY 160	E 0 - 1/8 (0.115 mi.)	9	10

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: A listing of spill and/or release related incidents.

A review of the SPILLS list, as provided by EDR, and dated 05/05/2015 has revealed that there is 1 SPILLS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported		WSW 1/8 - 1/4 (0.161 mi.)	14	24
Facility Status: Env. Closed				
Inc ID: 184378				

Other Ascertainable Records

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, and dated 12/30/2014 has revealed that there are 20 US MINES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG OAK COAL COMPANY		0 - 1/8 (0.000 mi.)	A1	7
MARIE ENTERPRISES IN		0 - 1/8 (0.000 mi.)	A2	7
LANCE COAL CORP		0 - 1/8 (0.000 mi.)	3	7
MEADE & SHEPHERD COA		0 - 1/8 (0.000 mi.)	4	8
MEADE & SHEPHERD COA		SW 1/4 - 1/2 (0.376 mi.)	19	34
BUBS CONTRACTING INC		N 1/4 - 1/2 (0.393 mi.)	20	34
COAL MOLE INC		S 1/4 - 1/2 (0.411 mi.)	21	35
CLARK MINING, INC.		N 1/4 - 1/2 (0.439 mi.)	22	35

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITESBURG COAL INC LAKE COAL COMPANY IN K C COAL COMPANY INC		ENE 1/4 - 1/2 (0.480 mi.) ENE 1/4 - 1/2 (0.480 mi.) SW 1/4 - 1/2 (0.498 mi.)	F23 F24 25	42 42 42
Lower Elevation	Address	Direction / Distance	Map ID	Page
BLACKEY ELKHORN COAL C & O COAL COMPANY I FLEENOR INC MILL BRANCH PROCESSI W & F CONTRACT AUGER ASHER'S QUALITY COAL ASHER'S QUALITY COAL SOUTH EAST COAL SALE WHITESBURG COAL INC		SSW 0 - 1/8 (0.074 mi.) SSW 0 - 1/8 (0.079 mi.) NNW 0 - 1/8 (0.119 mi.) NNW 0 - 1/8 (0.119 mi.) NNW 0 - 1/8 (0.119 mi.) SSW 1/4 - 1/2 (0.284 mi.) SSW 1/4 - 1/2 (0.294 mi.) E 1/4 - 1/2 (0.300 mi.)	C7 C8 D11 D12 D13 E15 E16 17	10 10 14 20 21 24 30 33 34

NPDES: A listing of permitted wastewater facilities.

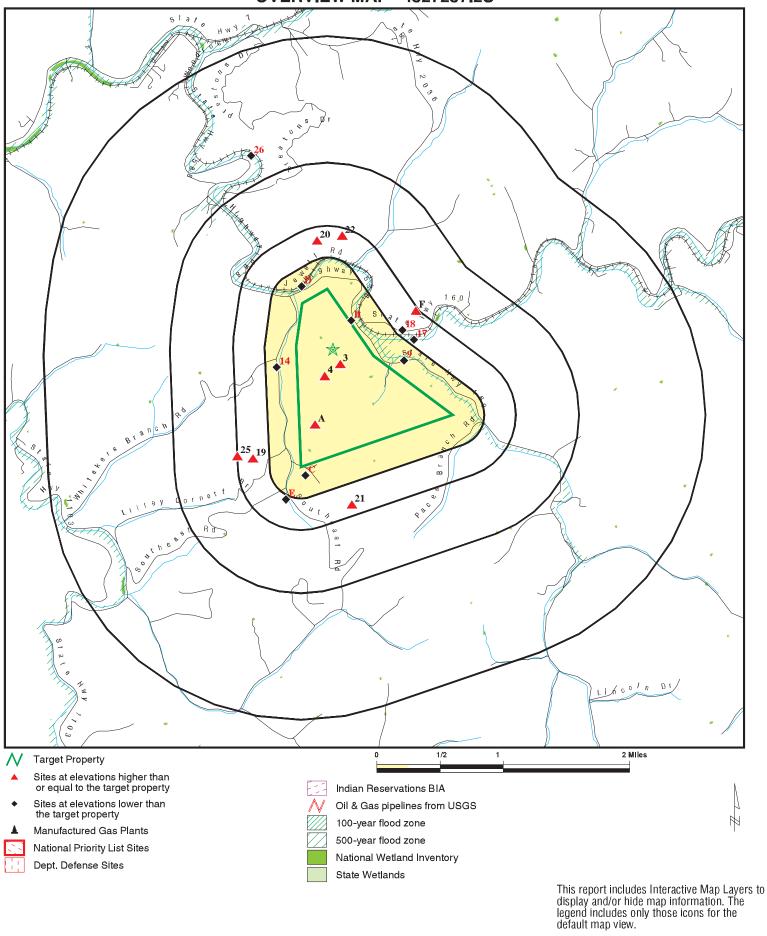
A review of the NPDES list, as provided by EDR, and dated 03/03/2015 has revealed that there is 1 NPDES site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page	
FLEENOR INC Facility Status: ACTIVE	MILL BRANCH W/KY RT	NNW 0 - 1/8 (0.119 mi.)	D10	13	
KY DES #: KYG046175					

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
ROXANA BP	UST, PSTEAF
GENTRY	SB193

OVERVIEW MAP - 4327237.2S



SITE NAME: Roxana

8218 Kentucky 160 Hallie KY 41821

37 106 / 82 9544

ADDRESS:

LAT/LONG:

June 16, 2015 5:45 pm Copyright © 2015 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

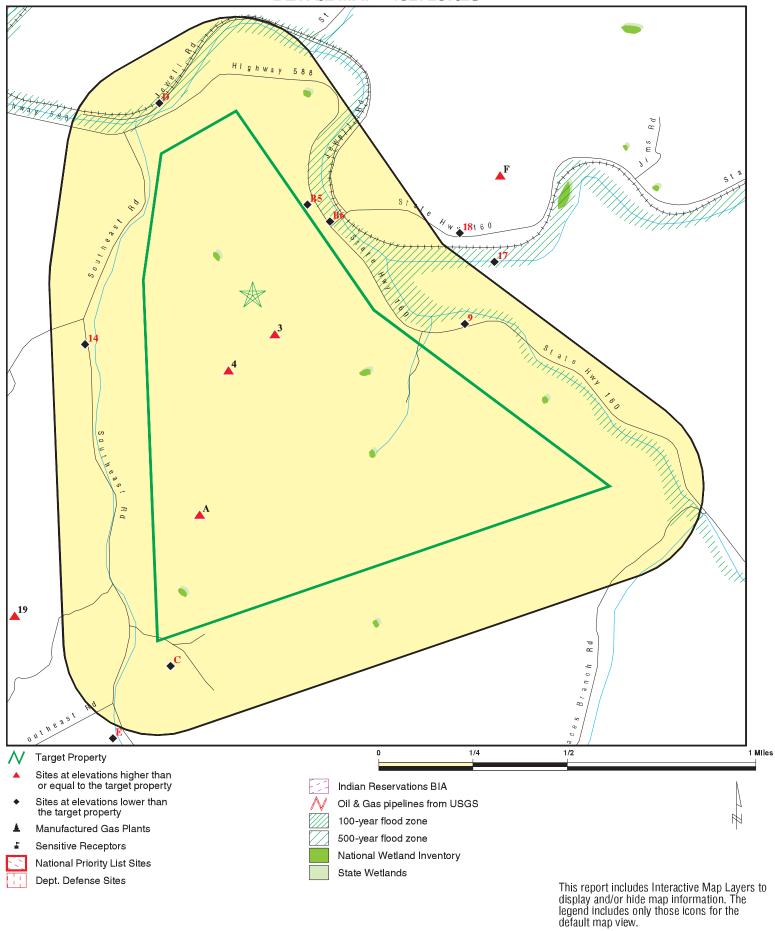
Cardno TEC

CLIENT: Cardno TEC CONTACT: Erika Fuery

INQUIRY #: 4327237.2s

DATE:

DETAIL MAP - 4327237.2S



SITE NAME: Roxana
ADDRESS: 8218 Kentucky 160
Hallie KY 41821
LAT/LONG: 37.106 / 82.9544

CLIENT: Cardno TEC
CONTACT: Erika Fuery
INQUIRY #: 4327237.2s
DATE: June 16, 2015 5:46 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.250 1.250 0.250		0 0 0	0 0 0	0 0 NR	0 0 NR	0 0 NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.250		0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0
Federal CERCLIS NFRA	P site List							
CERC-NFRAP	0.750		0	0	0	0	NR	0
Federal RCRA CORRAC	TS facilities lis	t						
CORRACTS	1.250		0	0	0	0	0	0
Federal RCRA non-COR	RACTS TSD fac	cilities list						
RCRA-TSDF	0.750		0	0	0	0	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL LUCIS	0.750 0.750 0.750		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.250		0	0	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.250		0	0	0	0	1	1
State and tribal landfill a solid waste disposal site								
SWF/LF	0.750		0	0	0	0	NR	0
State and tribal leaking storage tank lists								
SB193 PSTEAF INDIAN LUST	0.750 0.750 0.750		1 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	1 0 0
State and tribal registered storage tank lists								
UST	0.500		2	0	0	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST FEMA UST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal institution control / engineering con		s						
ENG CONTROLS INST CONTROL	0.500 0.750		0 0	0 0	0	NR 0	NR NR	0 0
State and tribal voluntary	cleanup site	s						
INDIAN VCP VCP	0.750 0.750		0 0	0 0	0 0	0 0	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.750		0	0	0	0	NR	0
ADDITIONAL ENVIRONMENT	TAL RECORDS	1						
Local Brownfield lists								
US BROWNFIELDS	0.750		0	0	0	0	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
ODI DEBRIS REGION 9 HIST LF SWRCY INDIAN ODI	0.750 0.750 0.750 0.750 0.750		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites								
US CDL CDL US HIST CDL	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS SPILLS	0.250 0.250		0 0	0 1	NR NR	NR NR	NR NR	0 1
Other Ascertainable Records								
RCRA NonGen / NLR DOT OPS DOD FUDS CONSENT ROD UMTRA US MINES	0.500 0.250 1.250 1.250 1.250 1.250 0.750 0.500		0 0 0 0 0 0 0	0 0 0 0 0 0	0 NR 0 0 0 0 0	NR NR 0 0 0 0 0 NR	NR NR 0 0 0 NR NR	0 0 0 0 0 0 0 20

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	0.250		0	0	NR	NR	NR	0
TSCA	0.250		0	0	NR	NR	NR	0
FTTS	0.250		0	0	NR	NR	NR	0
HIST FTTS	0.250		0	0	NR	NR	NR	0
SSTS	0.250		0	0	NR	NR	NR	0
ICIS	0.250		0	0	NR	NR	NR	0
PADS MLTS	0.250 0.250		0 0	0	NR NR	NR NR	NR NR	0
RADINFO	0.250		0	0 0	NR	NR	NR	0 0
FINDS	0.250		0	0	NR	NR	NR	0
RAATS	0.250		0	0	NR	NR	NR	0
RMP	0.250		0	Ö	NR	NR	NR	0
UIC	0.250		Ö	Ö	NR	NR	NR	Ő
DRYCLEANERS	0.500		Ö	Ö	0	NR	NR	Ö
NPDES	0.250		1	0	NR	NR	NR	1
AIRS	0.250		0	0	NR	NR	NR	0
LEAD	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	1.250		0	0	0	0	0	0
SCRD DRYCLEANERS	0.750		0	0	0	0	NR	0
Financial Assurance	0.250		0	0	NR	NR	NR	0
COAL ASH	0.750		0	0	0	0	NR	0
LEAD SMELTERS	0.250		0	0	NR	NR	NR	0
US AIRS	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	0.250		0	0	NR	NR	NR	0
US FIN ASSUR	0.250		0	0	NR	NR	NR	0
COAL ASH EPA PCB TRANSFORMER	0.750 0.250		0 0	0 0	0 NR	0 NR	NR NR	0
COAL ASH DOE	0.250		0	0	NR NR	NR	NR	0 0
2020 COR ACTION	0.500		0	0	0	NR	NR	0
PRP	0.250		0	Ö	NR	NR	NR	0
	0.200		Ü	Ü				Ü
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.250		0	0	0	0	0	0
EDR WGF EDR US Hist Auto Stat	0.500		0	0	0	NR	NR	0
EDR US Hist Cleaners	0.500		0	Ö	0	NR	NR	0
	0.000		Ü	Ü	Ü			Ü
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Go	vt. Archives							
RGA HWS	0.250		0	0	NR	NR	NR	0
RGA LF	0.250		Ō	Ō	NR	NR	NR	Ō
- Totals		0	13	1	11	0	1	26

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

A1 BIG OAK COAL COMPANY US MINES 1011166739
N/A

< 1/8 LETCHER (County), KY 1 ft.

Site 1 of 2 in cluster A

Relative: US MINES:

Higher Mine ID: 1516077

Actual: Entity name: NO 2

1422 ft. Company: BIG OAK COAL COMPANY

Status: D Status date: 19890222

Operation Class: Coal Mining
Number of shops: 0
Number of plants: 0
Latitude: 37 05 51

Longitude: 082 57 24

A2 MARIE ENTERPRISES INC US MINES 1011166662
N/A

< 1/8 LETCHER (County), KY 1 ft.

Site 2 of 2 in cluster A

Relative: US MINES:

Higher Mine ID: 1516000

Actual: Entity name: NO 1 MINE

1431 ft. Company: MARIE ENTERPRISES INC

Status: D

Status date: 19890202 Operation Class: Coal Mining

Number of shops: 0

Number of plants: 0 Latitude: 37 05 51 Longitude: 082 57 24

3 LANCE COAL CORP US MINES 1016478219
N/A

< 1/8 LETCHER (County), KY

1 ft.

US MINES:

Relative: Mine ID: 1503494

Higher SIC code(s): 122200 000000 000000 000000 000000

Entity name: NO 1 STRIP MINE
Actual: Company: LANCE COAL CORP

1561 ft. Status: D

Status date: 19800425 Operation Class: Coal Mining

Number of shops: 0
Number of plants: 0
Latitude: 00 00 00
Longitude: 000 00 00

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MEADE & SHEPHERD COAL COMPANY INC US MINES

1016483514 N/A

< 1/8 LETCHER (County), KY 1 ft.

US MINES:

Mine ID: 1516361 Relative:

SIC code(s): Higher

Entity name: ROXANA #2

Actual: MEADE & SHEPHERD COAL COMPANY INC Company:

1714 ft. Status:

> Status date: 19910123 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 06 11 Longitude: 082 57 20

B5 LEE GENTRY PROPERTY UST U003201172 N/A

NNE HWY 588 W

< 1/8 ROXANA, KY 41848

0.014 mi.

76 ft. Site 1 of 2 in cluster B

UST: Relative:

Sequence Id: 7630067 Lower Facility ID: 59894

Actual: Owner Name: Lee Gentry

1067 ft. Owner Address: 1052 Carpenters Trace

> Owner Address2: Not reported Owner Address3: Not reported

Owner City,St,Zip: Villa Hills, KY 410174412

Internal Document ID: 0

Latitude: 37.109427 Longitude: -82.951762

Subject Item Id:

Tank removed/verified **Tank Status:**

Inert Material Code: Not reported

Tank Material: SINGLE WALL STEEL

01/01/1982 Installation Date: 03/19/1997 Closed In Place Date: Removed Date: 03/31/1998 Capacity in Gallons: 560

Change in Service Date: Not reported Tank Pit Num: Not reported

Compartment Num: Tank Substance: **DIESEL** Tank Mfg Code: Not reported Tank Release Detection: NON UNKNOWN Tank Internal Protection: Tank Overfill Protection: Unknown Last Tank Test Date: Not reported Not reported Relined Date: Not reported Lining Insp Date: Not reported Piping Installation Date: Pipe Type: Suction

Pipe Material: Single Wall Steel

Pipe External Protection: None Pipe Release Detection: None

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

LEE GENTRY PROPERTY (Continued)

U003201172

Pipe Rel Detect Suc Code: NON Pipe Leak Detect Code: NA

Last Contained Date: Not reported Pipe Mfg Code: Not reported Last Pipe Test Date: Not reported Last CP Test Date: Not reported Not reported Added To Flex Date: Added To Piping Date: Not reported Added To Tank Date: Not reported

Subject Item Id: 2

Tank Status: Tank removed/verified

Inert Material Code: Not reported

Tank Material: SINGLE WALL STEEL

Installation Date: 01/01/1982 Closed In Place Date: 03/19/1997 Removed Date: 03/31/1998 Capacity in Gallons: 1000 Change in Service Date: Not reported Tank Pit Num: Not reported

Compartment Num:

GASOLINE Tank Substance: Tank Mfg Code: Not reported Tank Release Detection: NON UNKNOWN Tank Internal Protection: Tank Overfill Protection: Unknown Last Tank Test Date: Not reported Relined Date: Not reported Lining Insp Date: Not reported Piping Installation Date: Not reported Pipe Type: Suction

Pipe Material: Single Wall Steel Pipe External Protection: Unknown Pipe Release Detection: None NON Pipe Rel Detect Suc Code: Pipe Leak Detect Code: NA

Last Contained Date: Not reported Pipe Mfg Code: Not reported Last Pipe Test Date: Not reported Last CP Test Date: Not reported Not reported Added To Flex Date: Added To Piping Date: Not reported Added To Tank Date: Not reported

ROXANNE BP SB193 U003132084 **US HWY 160 S** N/A

< 1/8 ROXANA, KY 0.038 mi.

B6

NE

202 ft. Site 2 of 2 in cluster B

KY SENATE BILL 193 INVENTORY: Relative:

KY SENATE BILL 193 INVENTORY: SIW Lower 6892067 Facility ID:

Actual: Soil / Groundwater: Soil and Groundwater

1034 ft. Agency Interest Number: 59860

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

C7 BLACKEY ELKHORN COAL CORP US MINES 1011161628 N/A

SSW

LETCHER (County), KY < 1/8

0.074 mi.

393 ft. Site 1 of 2 in cluster C

Relative: Lower

US MINES: Mine ID:

1510956

SIC code(s): FROG POND TIPPLE Entity name:

Actual: 1355 ft.

Company: BLACKEY ELKHORN COAL CORP

Status:

Status date: 19831007 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 05 30 Longitude: 082 57 29

US MINES 1011160858 C8 **C & O COAL COMPANY INC** SSW

N/A

LETCHER (County), KY

0.079 mi.

< 1/8

419 ft. Site 2 of 2 in cluster C

US MINES: Relative:

Mine ID: 1510186 Lower

SIC code(s): Actual: Entity name: NO 1 TIPPLE

1321 ft. Company: C & O COAL COMPANY INC

> D Status:

Status date: 19900430 Operation Class: Coal Mining

Number of shops: Number of plants: 0

37 05 30 Latitude: Longitude: 082 57 29

JOHN W ISON GROCERY UST U001624007 9 N/A

East 14858 HWY 160

< 1/8 WHITESBURG, KY 41858

0.115 mi. 608 ft.

UST: Relative:

Sequence Id: 5542067 Lower Facility ID: 59891 Actual: Owner Name:

John Ison 1054 ft. Owner Address: 14858 HWY 160 Not reported Owner Address2: Owner Address3: Not reported

> Linefork, KY 41833 Owner City, St, Zip: Internal Document ID: Latitude: 37.1356 Longitude: -82.816

Subject Item Id:

Tank Status: Tank removed/verified

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHN W ISON GROCERY (Continued)

U001624007

EDR ID Number

Inert Material Code: Not reported

Tank Material: SINGLE WALL STEEL

Installation Date: 01/01/1950
Closed In Place Date: Not reported
Removed Date: 07/23/1994
Capacity in Gallons: 1000
Change in Service Date: Not reported
Tank Pit Num: Not reported

Compartment Num:

Tank Substance: **GASOLINE** Tank Mfg Code: Not reported Tank Release Detection: NON Tank Internal Protection: NA Tank Overfill Protection: Unknown Last Tank Test Date: Not reported Relined Date: Not reported Lining Insp Date: Not reported Piping Installation Date: Not reported Pipe Type: Suction

Pipe Material: Single Wall Steel

Pipe External Protection: None
Pipe Release Detection: None
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: NA
Leat Contained Date: Not to the containe

Last Contained Date:

Pipe Mfg Code:

Last Pipe Test Date:

Not reported

Subject Item Id: 4

Tank Status: Tank removed/verified

Inert Material Code: Not reported

Tank Material: SINGLE WALL STEEL

Installation Date: 05/01/1994
Closed In Place Date: Not reported
Removed Date: 01/29/2014
Capacity in Gallons: 3000
Change in Service Date: Not reported
Tank Pit Num: Not reported
Compartment Num: 1

Tank Substance: GASOLINE

Tank Mfg Code: STI

Tank Release Detection: INV RECORDS/TANK TIGHTNESS TEST

Tank Internal Protection: NA

Tank Overfill Protection: Automatic Shutoff Device

Last Tank Test Date: 02/18/2010
Relined Date: Not reported
Lining Insp Date: Not reported
Piping Installation Date: Not reported
Pipe Type: Suction
Pipe Material: Single Wall Steel

Pipe External Protection: Coating and Cathodic Protection

Pipe Release Detection: None
Pipe Rel Detect Suc Code: CKV

Direction Distance

Elevation Site Database(s) **EPA ID Number**

JOHN W ISON GROCERY (Continued)

U001624007

EDR ID Number

Pipe Leak Detect Code: NA Last Contained Date:

Not reported Pipe Mfg Code: STU Last Pipe Test Date: Not reported Last CP Test Date: 09/14/2010 Added To Flex Date: Not reported Added To Piping Date: 02/24/2007 Added To Tank Date: 02/24/2007

Subject Item Id:

Tank Status: Tank removed/verified

Inert Material Code: Not reported

SINGLE WALL STEEL Tank Material:

Installation Date: 05/01/1994 Closed In Place Date: Not reported Removed Date: 01/29/2014 3000 Capacity in Gallons: Change in Service Date: Not reported Tank Pit Num: Not reported

Compartment Num:

Tank Substance: **GASOLINE**

Tank Mfg Code: STI

Tank Release Detection: INV RECORDS/TANK TIGHTNESS TEST

Tank Internal Protection:

Automatic Shutoff Device Tank Overfill Protection:

Last Tank Test Date: 02/18/2010 Relined Date: Not reported Lining Insp Date: Not reported Piping Installation Date: Not reported Pipe Type: Suction

Single Wall Steel Pipe Material:

Pipe External Protection: Coating and Cathodic Protection

Pipe Release Detection: None Pipe Rel Detect Suc Code: CKV NA Pipe Leak Detect Code:

Last Contained Date: Not reported Pipe Mfg Code: STU Last Pipe Test Date: Not reported Last CP Test Date: 09/14/2010 Added To Flex Date: Not reported Added To Piping Date: 02/24/2007

Subject Item Id:

Added To Tank Date:

Tank Status: Tank removed/verified

02/24/2007

Inert Material Code: Not reported

Tank Material: SINGLE WALL STEEL

Installation Date: 01/01/1978 Closed In Place Date: Not reported Removed Date: 07/23/1994 Capacity in Gallons: 2000 Change in Service Date: Not reported Tank Pit Num: Not reported

Compartment Num:

GASOLINE Tank Substance: Tank Mfg Code: Not reported Tank Release Detection: NON

Direction Distance

Elevation Site Database(s) EPA ID Number

JOHN W ISON GROCERY (Continued)

Tank Internal Protection: NA

Tank Overfill Protection: Automatic Shutoff Device

Last Tank Test Date: Not reported Relined Date: Not reported Lining Insp Date: Not reported Piping Installation Date: Not reported Pipe Type: Suction

Pipe Material: Single Wall Steel

Pipe External Protection: None
Pipe Release Detection: None
Pipe Rel Detect Suc Code: NON
Pipe Leak Detect Code: NA

Last Contained Date: Not reported Pipe Mfg Code: Not reported Last Pipe Test Date: Not reported Last CP Test Date: Not reported Added To Flex Date: Not reported Added To Piping Date: Not reported Added To Tank Date: Not reported

 D10
 FLEENOR INC
 NPDES
 \$108760827

 NNW
 MILL BRANCH W/KY RT 2036
 N/A

NNW MILL BRANCH W/KY RT 2036 < 1/8 ROXANA, KY 41848

0.119 mi.

628 ft. Site 1 of 4 in cluster D

Relative: NPDES:

 Lower
 Federal Facility ID:
 Not reported

 Facility Status:
 ACTIVE

 Actual:
 KY DES #:
 KYG046175

 1028 ft.
 Total App# Design Flow (MGD):
 Not reported

Horizontal Collect Method Desc:

Facility Addr 2:
Inactive Date:
Design Capacity:
Fee Category:
SIC Code:

Not reported
Not reported
Not reported
Not reported
Not reported
1221

Lat/Long: +3706480 / -08257320

Not reported Lat/Long Method: USGS Hydrologic Basin Code: Not reported Facility Stream Segment: Not reported Facility Mileage Indicator: Not reported Basin Code: Not reported Basin Code Description: Not reported **DMR Contact:** Not reported Contact Telephone: Not reported Mailing Address: **PO BOX 100** Mailing Address 2: Not reported Mailing City, St, Zip: ASHCAMP, KY 41512

Permit Issued: 07/01/2009
Permit Expires: 07/31/2014

SIC Code Description: BITUMINOUS COAL & LIG, SURFACE Reveiving Waters: MILL BR / NORTH FORK / KY RIVER

Major/Minor: MINOR
Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported

EDR ID Number

U001624007

Direction Distance

Elevation Site Database(s) EPA ID Number

FLEENOR INC (Continued) S108760827

State Facility ID: Not reported Original Issue Date: Not reported Approved For Electronic DMR Submissionmeported

D11 FLEENOR INC US MINES 1010015878

NNW

< 1/8 LETCHER (County), KY

0.119 mi.

628 ft. Site 2 of 4 in cluster D

Relative: Lower US MINES:

Mine ID: 1519050

Actual: 1028 ft.

Company: FLEENOR INC

Status: D

Status date: 20121127 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 06 47 Longitude: 082 57 31

Violations Details:

Violation Number: 8229586 Date Issued: 12/15/2009 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 12/15/2009 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2009

Violation Number: 8229583 Date Issued: 12/10/2009 Mine Status: Abandoned 11/27/2012 Status Date: Action Type: 104(a) Date Abated: 12/11/2009 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2009

Violation Number: 8229584
Date Issued: 12/10/2009
Mine Status: Abandoned

EDR ID Number

N/A

Direction Distance Elevation

on Site Database(s) EPA ID Number

FLEENOR INC (Continued)

Status Date: 11/27/2012
Action Type: 104(a)
Date Abated: 12/11/2009
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00

Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Violation Number: 8219473 Date Issued: 12/03/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) 12/03/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8219471 Date Issued: 12/01/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 12/03/2008 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8219469 Date Issued: 12/01/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 12/03/2008 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

1010015878

EDR ID Number

Direction Distance Elevation

evation Site Database(s) EPA ID Number

FLEENOR INC (Continued)

1010015878

EDR ID Number

Violation Number: 8219470 Date Issued: 12/01/2008 Abandoned Mine Status: Status Date: 11/27/2012 Action Type: 104(a) 12/01/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8219472 Date Issued: 12/01/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 12/01/2008 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

8229574 Violation Number: Date Issued: 11/04/2009 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 11/04/2009 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2009 Year:

Violation Number: 8229573 Date Issued: 11/03/2009 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) 11/04/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed

Direction Distance Elevation

Site Database(s) **EPA ID Number**

FLEENOR INC (Continued)

Year:

Assessment Amount: 100.00 2009

Violation Number: 8219029 Date Issued: 09/08/2008 Mine Status: Abandoned 11/27/2012 Status Date: Action Type: 104(a) Date Abated: 09/11/2008 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219196 Date Issued: 09/08/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 09/08/2008 Citation/Order: Citation Sig and Sub Designation: Υ Proposed Penalty: 207.00 Paid Penalty: 207.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 207.00 Year: 2008

Violation Number: 8219192 Date Issued: 09/05/2008 Mine Status: Abandoned 11/27/2012 Status Date: Action Type: 104(a) 09/08/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2008

8219193 Violation Number: Date Issued: 09/05/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 09/11/2008 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00

1010015878

EDR ID Number

Direction Distance Elevation

on Site Database(s) EPA ID Number

FLEENOR INC (Continued)

1010015878

EDR ID Number

Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 8219194 Date Issued: 09/05/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 09/08/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219190 Date Issued: 09/05/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 09/08/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219191 Date Issued: 09/05/2008 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) Date Abated: 09/08/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

 Violation Number:
 8219195

 Date Issued:
 09/05/2008

 Mine Status:
 Abandoned

 Status Date:
 11/27/2012

 Action Type:
 104(a)

 Date Abated:
 09/11/2008

Map ID MAP FINDINGS Direction

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

FLEENOR INC (Continued) 1010015878

Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 6646632 09/05/2007 Date Issued: Mine Status: Abandoned 11/27/2012 Status Date: Action Type: 104(a) 09/05/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2007

Violation Number: 6646629 Date Issued: 08/29/2007 Mine Status: Abandoned Status Date: 11/27/2012 Action Type: 104(a) 09/05/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2007

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FLEENOR INC (Continued)

1010015878

N/A

Click this hyperlink while viewing on your computer to access 23 additional US_MINES: record(s) in the EDR Site Report.

D12 US MINES 1011169733

NNW

MILL BRANCH PROCESSING INC

< 1/8

PIKE (County), KY

0.119 mi.

628 ft. Site 3 of 4 in cluster D

Relative:

US MINES:

Mine ID: Lower

SIC code(s):

Actual: 1028 ft. Entity name: AUGER NO 1 SN #11

MILL BRANCH PROCESSING INC Company:

1519140

Status:

Status date: 20131119 Operation Class: Coal Mining

Number of shops: Number of plants: 0

37 06 47 Latitude: Longitude: 082 57 31

Violations Details:

Violation Number: 8219477 Date Issued: 12/24/2008 Mine Status: Abandoned Status Date: 11/19/2013 Action Type: 104(g)(1) Date Abated: 12/30/2008 Citation/Order: Order Sig and Sub Designation: Proposed Penalty: 112.00 Paid Penalty: 112.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 112.00 Year: 2008

Violation Number: 8219475 Date Issued: 12/23/2008 Mine Status: Abandoned Status Date: 11/19/2013 Action Type: 104(a) Date Abated: 01/05/2009 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219476 Date Issued: 12/23/2008 Mine Status: Abandoned 11/19/2013 Status Date:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MILL BRANCH PROCESSING INC (Continued)

1011169733

Action Type: 104(a) 01/05/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2008

Violation Number: 8219028 Date Issued: 09/05/2008 Mine Status: Abandoned Status Date: 11/19/2013 Action Type: 104(a) Date Abated: 09/08/2008 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess, Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8239547 Date Issued: 06/01/2010 Mine Status: Abandoned Status Date: 11/19/2013 Action Type: 104(a) Date Abated: 06/07/2010 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2010

D13 W & F CONTRACT AUGERING INC. US MINES 1011169521 N/A

< 1/8 0.119 mi.

NNW

LETCHER (County), KY

628 ft. Site 4 of 4 in cluster D

US MINES: Relative: Lower

Mine ID: 1519060 SIC code(s):

Actual: Entity name:

1028 ft. W & F CONTRACT AUGERING INC. Company:

Status:

Status date: 20070607 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0

Latitude: 37 06 47

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

W & F CONTRACT AUGERING INC. (Continued)

1011169521

Longitude: 082 57 31

Violations Details:

Violation Number: 6645624 Date Issued: 02/08/2007 Mine Status: Abandoned 01/13/2015 Status Date: Action Type: 104(a) Date Abated: 02/14/2007 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed 60.00 Assessment Amount: Year: 2007

Violation Number: 7436923 Date Issued: 01/09/2007 Mine Status: Abandoned Status Date: 01/13/2015 Action Type: 104(a) 01/11/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν 60.00 Proposed Penalty: Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2007

Violation Number: 7436922 01/09/2007 Date Issued: Mine Status: Abandoned Status Date: 01/13/2015 Action Type: 104(a) 06/06/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed 60.00 Assessment Amount: Year: 2007

Violation Number: 7436921 01/08/2007 Date Issued: Mine Status: Abandoned Status Date: 01/13/2015 Action Type: 104(a) Date Abated: 01/11/2007 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 60.00

Direction Distance Elevation

on Site Database(s) EPA ID Number

W & F CONTRACT AUGERING INC. (Continued)

1011169521

EDR ID Number

Paid Penalty: 0.00
Assessment Status code: Received
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2007

Violation Number: 7436918 Date Issued: 01/04/2007 Mine Status: Abandoned Status Date: 01/13/2015 Action Type: 104(a) Date Abated: 01/05/2007 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 60.00 Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed Assessment Amount: 60.00 2007 Year:

7436917 Violation Number: Date Issued: 01/04/2007 Mine Status: Abandoned Status Date: 01/13/2015 Action Type: 104(a) 01/05/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed Assessment Amount: 60.00 2007 Year:

Violation Number: 7436919 Date Issued: 01/04/2007 Mine Status: Abandoned Status Date: 01/13/2015 104(a) Action Type: Date Abated: 01/08/2007 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 0.00 Assessment Status code: Received Assess. Case Status code: Proposed Assessment Amount: 60.00 2007 Year:

Direction Distance

Elevation Site Database(s) **EPA ID Number**

14 SPILLS S117080685 N/A

WSW 1/8-1/4

ROXANA, KY

0.161 mi. 850 ft.

SPILLS: Relative:

Lower

Facility Status: Env. Closed

Incident Type: SOIL CONTAMINATION

Actual: 1116 ft.

Program Code: Not reported Received By Staff: Rader, Andrea Received Date: 08/16/2004 Report Date: 8/16/04 10:20

Dispatch Description: coal company oiling haul road

Source Name: Not reported

Source Address: turn on 160 at Action Auto Supply, go across RR tracks and bridge,

turn right, take first dirt road, when it splits stay left

Substances: Not reported Other Substances Desc: Not reported Solid Waste Media Impacted: Inc ID: 184378 Lead Invest Person ID: 9448 Compliance: Yes Notification: No Priority: Routine Incident End Date: Not reported Not reported Follow Up Priority Desc: Most Recent Comp Eval Activity: Not reported Most Recent ENF Activity: Not reported Begin Emergency Date: Not reported End Emergency Date: Not reported MARS Function Code: Not reported Locked: Not reported

Closure Type Desc: Not reported Latitude: 37.104056 Longitude: -82.962444

US MINES E15 **ASHER'S QUALITY COAL CORP** 1016484115 N/A

SSW

1/4-1/2 LETCHER (County), KY

0.284 mi.

1501 ft. Site 1 of 2 in cluster E

Relative:

US MINES:

Lower

1518096 Mine ID:

SIC code(s): Actual: Entity name: MINE #1

1253 ft. Company: ASHER'S QUALITY COAL CORP

> Status: D

20090930 Status date: **Coal Mining** Operation Class:

Number of shops: Number of plants: 37 05 19 Latitude: Longitude: 082 57 39

Violations Details:

7418987 Violation Number: Date Issued: 09/01/2005 **EDR ID Number**

Map ID MAP FINDINGS
Direction

Distance Elevation

n Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORP (Continued)

Mine Status: Abandoned 09/30/2009 Status Date: Action Type: 104(a) Date Abated: 09/08/2005 Citation/Order: Citation Sig and Sub Designation: 60.00 Proposed Penalty: Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed 60.00 Assessment Amount: 2005 Year:

Violation Number: 7418986 Date Issued: 08/30/2005 Mine Status: Abandoned 09/30/2009 Status Date: Action Type: 104(a) 09/01/2005 Date Abated: Citation Citation/Order: Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2005

Violation Number: 7418985 Date Issued: 08/30/2005 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 09/01/2005 Citation Citation/Order: Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 2005 Year:

7401045 Violation Number: Date Issued: 08/20/2003 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 08/21/2003 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2003

EDR ID Number

1016484115

Direction Distance Elevation

ation Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORP (Continued)

1016484115

EDR ID Number

Violation Number: 7391043 08/07/2002 Date Issued: Abandoned Mine Status: Status Date: 09/30/2009 Action Type: 104(a) 08/07/2002 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 55.00 Year: 2002

Violation Number: 7391045 08/07/2002 Date Issued: Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 08/12/2002 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 55.00 2002 Year:

Violation Number: 7391044 Date Issued: 08/07/2002 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 08/15/2002 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 55.00 2002 Year:

Violation Number: 7391042 Date Issued: 08/07/2002 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) 08/07/2002 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORP (Continued)

Assessment Amount: 55.00 Year: 2002

Violation Number: 7391041 Date Issued: 08/07/2002 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 08/07/2002 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 55.00 2002 Year:

Violation Number: 7390858 Date Issued: 07/31/2002 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 07/31/2002 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed 55.00 Assessment Amount: Year: 2002

Violation Number: 7390859 07/31/2002 Date Issued: Mine Status: Abandoned 09/30/2009 Status Date: Action Type: 104(a) 08/07/2002 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 55.00 Paid Penalty: 55.00 Assessment Status code: Closed Assess. Case Status code: Proposed 55.00 Assessment Amount: Year: 2002

Violation Number: 7435968 Date Issued: 06/13/2006 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 06/13/2006 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00

1016484115

EDR ID Number

Direction Distance Elevation

Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORP (Continued)

1016484115

EDR ID Number

Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2006

Violation Number: 6645473 Date Issued: 05/10/2007 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 05/14/2007 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 127.00 Paid Penalty: 127.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 127.00 2007 Year:

Violation Number: 6645474 Date Issued: 05/10/2007 Mine Status: Abandoned 09/30/2009 Status Date: Action Type: 104(a) Date Abated: 05/10/2007 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2007 Year:

Violation Number: 6647109 Date Issued: 03/25/2008 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 03/25/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

 Violation Number:
 8220439

 Date Issued:
 03/23/2009

 Mine Status:
 Abandoned

 Status Date:
 09/30/2009

 Action Type:
 104(a)

 Date Abated:
 03/23/2009

Direction Distance Elevation

ce EDR ID Number on Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORP (Continued)

1016484115

Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Violation Number: 8220437 Date Issued: 03/23/2009 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 03/23/2009 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2009 Year:

8220438 Violation Number: Date Issued: 03/23/2009 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 03/23/2009 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2009

8220436 Violation Number: Date Issued: 03/16/2009 Mine Status: Abandoned Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 03/31/2009 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2009

Violation Number: 7418131 Date Issued: 03/14/2005 Mine Status: Abandoned

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ASHER'S QUALITY COAL CORP (Continued)

1016484115

Status Date: 09/30/2009 Action Type: 104(a) Date Abated: 03/17/2005 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 60.00 Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2005

> Click this hyperlink while viewing on your computer to access 12 additional US_MINES: record(s) in the EDR Site Report.

E16 **ASHER'S QUALITY COAL CORPORATION** **US MINES** 1016151411 N/A

SSW

1/4-1/2 LETCHER (County), KY

0.284 mi.

1501 ft. Site 2 of 2 in cluster E

Relative:

US MINES:

Lower

Mine ID: 1519428

Actual:

SIC code(s):

Entity name: MINE #1

1253 ft.

ASHER'S QUALITY COAL CORPORATION Company:

Status:

Status date: 20130102 Operation Class: Coal Mining

Number of shops: Number of plants: 0 Latitude: 37 04 13 082 55 28 Longitude:

Violations Details:

Violation Number: 8229642 Date Issued: 11/02/2009 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) 11/06/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00

Distance Elevation

n Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORPORATION (Continued)

1016151411

EDR ID Number

Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Violation Number: 8229643 Date Issued: 11/02/2009 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 11/06/2009 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2009

Date Issued: 09/14/2011 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 09/20/2011 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 100.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

8255898

Violation Number:

Violation Number: 8255897 Date Issued: 09/14/2011 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) 09/20/2011 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8255896
Date Issued: 09/13/2011
Mine Status: Abandoned
Status Date: 01/02/2013
Action Type: 104(a)
Date Abated: 09/14/2011
Citation/Order: Citation

Direction Distance Elevation

tion Site Database(s) EPA ID Number

ASHER'S QUALITY COAL CORPORATION (Continued)

1016151411

EDR ID Number

Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2011

Violation Number: 8250286 Date Issued: 09/09/2010 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 09/14/2010 Citation/Order: Citation Sig and Sub Designation: 190.00 Proposed Penalty: 190.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 190.00 Year: 2010

Violation Number: 8250287 Date Issued: 09/09/2010 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 09/14/2010 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: 2010 Year:

Violation Number: 8251319 Date Issued: 03/28/2011 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) 03/28/2011 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 100.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8251318
Date Issued: 03/18/2011
Mine Status: Abandoned
Status Date: 01/02/2013

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ASHER'S QUALITY COAL CORPORATION (Continued)

1016151411

Action Type: 104(a) 03/22/2011 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2011

8251307 Violation Number: Date Issued: 02/28/2011 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 03/28/2011 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess, Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8239474 Date Issued: 02/24/2010 Mine Status: Abandoned Status Date: 01/02/2013 Action Type: 104(a) Date Abated: 02/24/2010 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2010

17 **SOUTH EAST COAL SALES**

LETCHER (County), KY

US MINES 1016479565 N/A

1/4-1/2 0.294 mi.

1553 ft.

East

US MINES: Relative: Lower

Mine ID: 1505887

SIC code(s):

Actual: Entity name: **RED FOX TARTAN** 1029 ft.

Company: SOUTH EAST COAL SALES

> Status: D

Status date: 19800502 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0

Latitude: 00 00 00

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

SOUTH EAST COAL SALES (Continued)

Longitude: 000 00 00

18 WHITESBURG COAL INC US MINES 1011160830

ENE

1/4-1/2 LETCHER (County), KY

0.300 mi. 1586 ft.

Relative: US MINES:

Lower Mine ID: 1510158

Actual: Entity name: NO 3 PROCESSING PLANT 1126 ft. Company: WHITESBURG COAL INC

Status: D

Status date: 19850416 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 06 29 Longitude: 082 56 39

19 MEADE & SHEPHERD COAL COMPANY INC US MINES 1016480926

SW

1/4-1/2 LETCHER (County), KY

0.376 mi. 1987 ft.

Relative: US MINES:

Higher Mine ID: 1508321

SIC code(s): 122200 000000 000000 000000 000000

Actual: Entity name: NO 2 SURFACE

1526 ft. Company: MEADE & SHEPHERD COAL COMPANY INC

Status: D Status date: 19850522 Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 05 36 Longitude: 082 57 56

20 BUBS CONTRACTING INC US MINES 1011169692
North N/A

North 1/4-1/2 LETCHER (County), KY

0.393 mi. 2075 ft.

Relative: US MINES: Higher Mine ID:

Actual: Entity name: AUGER NO 1 S/N 116
1421 ft. Company: BUBS CONTRACTING INC

Status: C

Status date: 20070816 Operation Class: Coal Mining

Number of shops: 0

1016479565

N/A

N/A

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

BUBS CONTRACTING INC (Continued)

1011169692

EDR ID Number

Number of plants: 0

37 07 06 Latitude: Longitude: 082 57 23

Violations Details:

Violation Number: 6646306 Date Issued: 07/26/2007 Mine Status: Abandoned Status Date: 12/31/2014 Action Type: 104(a) 08/23/2007 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2007

21 **COAL MOLE INC US MINES** 1011167616

N/A

South

LETCHER (County), KY 1/4-1/2

0.411 mi. 2171 ft.

Relative: Higher

US MINES: Mine ID:

1516959 SIC code(s):

Actual: Entity name: NO₃

1530 ft.

Company: COAL MOLE INC Status:

19960723 Status date: Coal Mining Operation Class:

Number of shops: Number of plants: 37 05 17 Latitude: Longitude: 082 57 06

US MINES 1015766237 22 **CLARK MINING, INC.** North N/A

1/4-1/2

LETCHER (County), KY

0.439 mi. 2318 ft.

US MINES: Relative:

Mine ID: 1519309 Higher

SIC code(s):

Actual: Entity name:

1468 ft. CLARK MINING, INC. Company:

Status: D Status date: 20120329

Operation Class: Coal Mining

Number of shops: 0 Number of plants: 0 Latitude: 37 07 08

TC4327237.2s Page 35

Distance

Elevation Site Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

EDR ID Number

Longitude: 082 57 10

Violations Details:

Violation Number: 8267840 Date Issued: 12/27/2011

Mine Status: Abandoned and Sealed

03/29/2012 Status Date: Action Type: 104(b) Date Abated: 02/23/2012 Citation/Order: Order Sig and Sub Designation: Not reported Proposed Penalty: Not reported Paid Penalty: Not reported Assessment Status code: Not reported Assess. Case Status code: Not reported Assessment Amount: Not reported Year: 2011

Violation Number: 8219716 Date Issued: 12/23/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) 12/30/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8219715 Date Issued: 12/23/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) 12/30/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2008

Violation Number: 8219714 Date Issued: 12/23/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012
Action Type: 314(b)
Date Abated: 12/23/2008
Citation/Order: Safeguard
Sig and Sub Designation: Not reported
Proposed Penalty: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

EDR ID Number

Paid Penalty: Not reported
Assessment Status code: Not reported
Assess. Case Status code: Not reported
Assessment Amount: Not reported
Year: 2008

Violation Number: 8219887 Date Issued: 12/23/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/30/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219886 Date Issued: 12/23/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) 12/30/2008 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8267838 Date Issued: 12/22/2011

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 104(a) Action Type: Date Abated: 12/22/2011 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2011 Year:

Violation Number: 8267839 Date Issued: 12/22/2011

Mine Status: Abandoned and Sealed

 Status Date:
 03/29/2012

 Action Type:
 104(a)

 Date Abated:
 12/27/2011

Direction Distance Elevation

vation Site Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

EDR ID Number

Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2011

Violation Number: 8219713 Date Issued: 12/22/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/23/2008 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2008 Year:

Violation Number: 8219711 Date Issued: 12/22/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/30/2008 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: Year: 2008

Violation Number: 8219710
Date Issued: 12/22/2008

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/22/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2008

Violation Number: 8219712 Date Issued: 12/22/2008

Mine Status: Abandoned and Sealed

Direction Distance Elevation

istance EDR ID Number levation Site Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/30/2008 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 150.00 Paid Penalty: 150.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 150.00 2008 Year:

Violation Number: 8267837 Date Issued: 12/20/2011

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) 12/22/2011 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8267836 Date Issued: 12/20/2011

Mine Status: Abandoned and Sealed

03/29/2012 Status Date: Action Type: 104(a) Date Abated: 12/22/2011 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8267830 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed Status Date: 03/29/2012

2011

Action Type: 104(a) Date Abated: 12/19/2011 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00

Year:

Direction Distance

Elevation Site Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

EDR ID Number

Violation Number: 8267831 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) 12/19/2011 Date Abated: Citation/Order: Citation Sig and Sub Designation: Υ Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8267832 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/22/2011 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2011

Violation Number: 8267833 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed

Status Date: 03/29/2012 Action Type: 104(a) Date Abated: 12/20/2011 Citation/Order: Citation Sig and Sub Designation: Ν 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 2011 Year:

Violation Number: 8267834 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed Status Date: 03/29/2012

Action Type: 104(a)
Date Abated: 12/22/2011
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed

Map ID MAP FINDINGS Direction

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

CLARK MINING, INC. (Continued)

1015766237

Assessment Amount: 100.00 Year: 2011

Violation Number: 8267835 Date Issued: 12/19/2011

Mine Status: Abandoned and Sealed

03/29/2012 Status Date: Action Type: 104(a) Date Abated: Not reported Citation/Order: Citation Sig and Sub Designation: N Proposed Penalty: 112.00 Paid Penalty: 112.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 112.00 2011 Year:

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLARK MINING, INC. (Continued)

1015766237

N/A

Click this hyperlink while viewing on your computer to access 263 additional US_MINES: record(s) in the EDR Site Report.

F23 WHITESBURG COAL INC US MINES 1016481877 N/A

ENE

1/4-1/2 LETCHER (County), KY

0.480 mi.

2532 ft. Site 1 of 2 in cluster F

US MINES: Relative:

1510171 Mine ID: Higher

SIC code(s):

Actual: Entity name: NO 1 PROCESSING PLANT 1392 ft. Company: WHITESBURG COAL INC

Status: D

Status date: 19850416 Operation Class: Coal Mining

Number of shops: Number of plants: 0 37 06 38 Latitude: Longitude: 082 56 33

F24 LAKE COAL COMPANY INC **US MINES** 1011159923

ENE

1/4-1/2 LETCHER (County), KY

0.480 mi.

2533 ft. Site 2 of 2 in cluster F

US MINES:

Relative:

Mine ID: 1512240 Higher SIC code(s):

Actual: NO 4 SURFACE MINE Entity name: 1392 ft. LAKE COAL COMPANY INC

Company: Status:

Status date: 19810301 Operation Class: Coal Mining Number of shops: 0

Number of plants: 0 00 00 00 Latitude: Longitude: 000 00 00

25 K C COAL COMPANY INC **US MINES** 1011158801

1/4-1/2 LETCHER (County), KY

0.498 mi. 2630 ft.

SW

US MINES: Relative:

Higher Mine ID: 1508111

SIC code(s):

Actual: Entity name: NO 3 MINE

1768 ft. Company: K C COAL COMPANY INC

> Status: D

19791111 Status date: Operation Class: Coal Mining N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

K C COAL COMPANY INC (Continued)

1011158801

N/A

Number of shops: 0 Number of plants: 0

Latitude: 00 00 00 Longitude: 000 00 00

SHWS S107467214

26 KENTUCKY WEST VIRGINIA GAS PIPELINE

NONE > 1 META, KY 41501

1.215 mi. 6415 ft.

NNW

SHWS: Relative:

1242 Lower Facility Id: Status: Closed

Actual: WELL LINE W-837 / KENTUCKY WEST VIRGINIA GAS (Closed: Restored Description: 1014 ft.

06/16/1995)

Closure Date: 06/16/1995 Longitude: -82.9661 Latitude: 37.128333

Subject Item County: Not Yet Determined

Sub Item Longitude: -82.5188 Sub Item Latitude: 37.47917 Subject Item Address: Gas Pipeline Subject Item Address2: Not reported Subject Item City,St,Zip: Statewide, KY 41653 Regulatory Desc: State Superfund Closure Option: Option C Restored

38140 Side SG:

Count: 2 records. ORPHAN SUMMARY

City		Site Name	Site Address	Zip	Database(s)
ROXANA		GENTRY	HWY 588 W	41848	SB193
ROXANA	U004179726 F	ROXANA BP	US HWY 160 S	41848	UST, PSTEAF

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014 Source: EPA
Date Data Arrived at EDR: 01/08/2015 Telephone: N/A

Number of Days to Update: 32 Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267

Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: EPA Telephone: N/A

Last EDR Contact: 04/08/2015

Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/08/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014

Number of Days to Update: 94

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency Telephone: (404) 562-8651

Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 13

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 63

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/11/2014 Date Data Arrived at EDR: 06/13/2014 Date Made Active in Reports: 07/23/2014

Number of Days to Update: 40

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

SB193: SB193 Branch Site Inventory List

The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006 Date Data Arrived at EDR: 09/13/2006 Date Made Active in Reports: 10/18/2006

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/27/2015

Data Release Frequency: No Update Planned

PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/01/2015 Date Data Arrived at EDR: 04/15/2015 Date Made Active in Reports: 04/30/2015

Number of Days to Update: 15

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 04/15/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 32

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 184

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/03/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/10/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 31

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 01/28/2015 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/08/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 29

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/04/2015 Date Data Arrived at EDR: 03/04/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 29

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 28

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014

Number of Days to Update: 271

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/28/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 65

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 28

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/26/2015

Next Scheduled EDR Contact: 05/11/2015 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 36

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 10

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/13/2015

Number of Days to Update: 42

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/13/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

INST CONTROL: State Superfund Database

A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 03/25/2015 Date Data Arrived at EDR: 03/27/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 7

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015

Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014 Date Data Arrived at EDR: 10/01/2014 Date Made Active in Reports: 11/06/2014

Number of Days to Update: 36

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/02/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 26

Source: Division of Compliance Assistance

Telephone: 502-564-0323 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015 Date Data Arrived at EDR: 03/24/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/24/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/23/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Kentucky.

Date of Government Version: 04/07/2014 Date Data Arrived at EDR: 04/25/2014 Date Made Active in Reports: 05/12/2014

Number of Days to Update: 17

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 04/23/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Varies

HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006

Number of Days to Update: 32

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009

Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/01/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

Date of Government Version: 03/24/2015 Date Data Arrived at EDR: 03/26/2015 Date Made Active in Reports: 04/03/2015

Number of Days to Update: 8

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 06/15/2015

Number of Days to Update: 39

Source: DEP, Emergency Response

Telephone: 502-564-2380 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/31/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/05/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747

Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 09/18/2014

Number of Days to Update: 8

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015

Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 04/17/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 46

Telephone: Varies

Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015

Source: Department of Justice, Consent Decree Library

Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013 Date Data Arrived at EDR: 12/12/2013 Date Made Active in Reports: 02/24/2014

Number of Days to Update: 74

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015

Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014 Date Data Arrived at EDR: 12/31/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/03/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 110

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 01/29/2015

Next Scheduled EDR Contact: 06/08/2015 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 14

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/27/2015

Next Scheduled EDR Contact: 07/06/2015 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/20/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/10/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/06/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 33

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015 Date Data Arrived at EDR: 04/09/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 63

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 06/04/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015 Date Data Arrived at EDR: 04/09/2015 Date Made Active in Reports: 06/11/2015

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/09/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015 Date Data Arrived at EDR: 02/27/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 26

Source: EPA

Telephone: (404) 562-9900 Last EDR Contact: 06/10/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/27/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 05/29/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Biennially

UIC: UIC Information

A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 04/16/2015 Date Data Arrived at EDR: 04/20/2015 Date Made Active in Reports: 04/30/2015

Number of Days to Update: 10

Source: Kentucky Geological Survey Telephone: 859-323-0544 Last EDR Contact: 04/20/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Quarterly

DRYCLEANERS: Drycleaner Listing
A listing of drycleaner facility locations.

Date of Government Version: 11/26/2014 Date Data Arrived at EDR: 12/01/2014 Date Made Active in Reports: 12/29/2014

Number of Days to Update: 28

Source: Department of Environmental Protection

Telephone: 502-573-3382 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 03/03/2015 Date Data Arrived at EDR: 03/05/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 6

Source: Department of Environmental Protection

Telephone: 502-564-3410 Last EDR Contact: 05/12/2015

Next Scheduled EDR Contact: 08/24/2015

Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing
A listing of permitted Airs facilities.

Date of Government Version: 03/02/2015 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/11/2015

Number of Days to Update: 8

Source: Department of Environmental Protection

Telephone: 502-573-3382 Last EDR Contact: 06/01/2015

Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

LEAD: Environmental Lead Program Report Tracking Database

Lead Report Tracking Database

Date of Government Version: 08/31/2014 Date Data Arrived at EDR: 12/05/2014 Date Made Active in Reports: 12/29/2014

Number of Days to Update: 24

Source: Department of Public Health

Telephone: 502-564-4537 Last EDR Contact: 05/08/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS Telephone: 202-

Telephone: 202-208-3710 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 05/21/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2015

Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/01/2015

Next Scheduled EDR Contact: 08/10/2015 Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014

Number of Days to Update: 17

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 03/30/2015

Next Scheduled EDR Contact: 07/13/2015 Data Release Frequency: Annually

COAL ASH DOE: Steam-Electric Plant Operation Data A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/15/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 4

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites A listing of coal ash pond site locations.

> Date of Government Version: 12/09/2013 Date Data Arrived at EDR: 05/01/2014 Date Made Active in Reports: 07/07/2014

Number of Days to Update: 67

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information.

Date of Government Version: 04/08/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/02/2015

Number of Days to Update: 4

Source: Department of Environmental Protection

Telephone: 502-564-6716 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014 Date Data Arrived at EDR: 06/06/2014 Date Made Active in Reports: 06/24/2014

Number of Days to Update: 18

Source: Department of Environmental Protection

Telephone: 502-564-5981 Last EDR Contact: 05/04/2015

Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/07/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 64

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/10/2015

Next Scheduled EDR Contact: 07/20/2015 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/14/2015

Next Scheduled EDR Contact: 08/24/2015

Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015

Data Release Frequency: N/A

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Telephone: N/A Last EDR Contact: N/A

Source: EDR, Inc.

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/18/2015

Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/29/2015

Number of Days to Update: 30

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/14/2015

Next Scheduled EDR Contact: 07/27/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/06/2015 Date Made Active in Reports: 05/20/2015

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/06/2015

Next Scheduled EDR Contact: 08/17/2015 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/16/2015

Next Scheduled EDR Contact: 08/03/2015 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/15/2014 Date Made Active in Reports: 08/13/2014

Number of Days to Update: 29

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 05/26/2015

Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015

Number of Days to Update: 19

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/11/2015

Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes Source: Cabinet for Families & Children

Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet

Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ROXANA 8218 KENTUCKY 160 HALLIE, KY 41821

TARGET PROPERTY COORDINATES

Latitude (North): 37.106 - 37° 6' 21.60" Longitude (West): 82.9544 - 82° 57' 15.84"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 326333.4 UTM Y (Meters): 4108215.2

Elevation: 1357 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 37082-A8 ROXANA, KY

Most Recent Revision: 1976

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

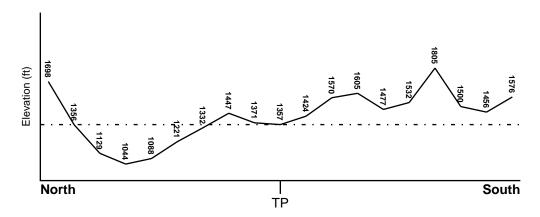
TOPOGRAPHIC INFORMATION

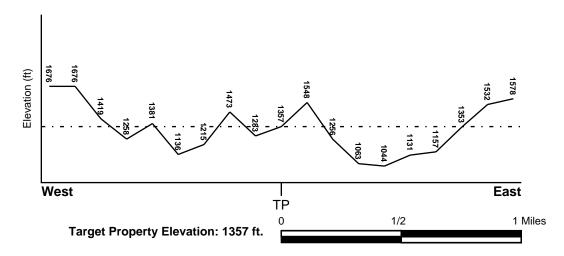
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County LETCHER, KY

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

21133C - FEMA DFIRM Flood data

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

ROXANA

YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP

GENERAL DIRECTION
GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic Category: Stratifed Sequence

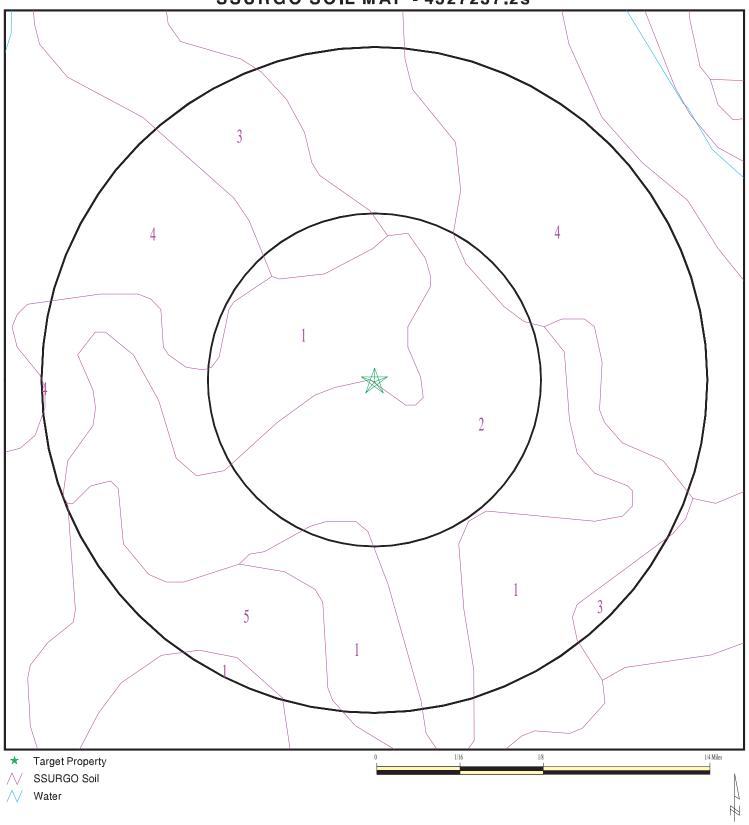
System: Pennsylvanian

Series: Atokan and Morrowan Series

Code: PP1 (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4327237.2s



SITE NAME: Roxana ADDRESS: 8218 Kentucky 160

Hallie KY 41821 LAT/LONG: 37.106 / 82.9544 CLIENT: Cardno TEC CONTACT: Erika Fuery INQUIRY#: 4327237.2s

DATE: June 16, 2015 5:47 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Kaymine

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	Information			
	Boundary		Boundary	Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Oon Nouvelon
1	0 inches	14 inches	channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 4	Max: 7.8 Min: 5.6
2	14 inches	79 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 42 Min: 4	Max: 7.8 Min: 5.6

Soil Map ID: 2

Soil Component Name: Fiveblock

Soil Surface Texture: channery sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	channery sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	14 inches	64 inches	very channery sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 3

Soil Component Name: Shelocta

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	3 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	27 inches	55 inches	very channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 5.5 Min: 4.5
4	55 inches	66 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 4

Soil Component Name: Kimper
Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	5 inches	61 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	61 inches	79 inches	very channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Dekalb

Soil Surface Texture: channery sandy loam

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures. Hydrologic Group:

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 64 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	1 inches	channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
2	1 inches	25 inches	very channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 42	Max: 5.5 Min: 3.6
3	25 inches	29 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

A1 USGS40000379988 1/4 - 1/2 Mile NE

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
	KY5000000022462	1/4 - 1/2 Mile NE
A3	KY500000022463	1/4 - 1/2 Mile NE
4	KY500000022588	1/4 - 1/2 Mile North
B5	KY500000022426	1/4 - 1/2 Mile ENE
C6	KY500000022558	1/4 - 1/2 Mile NE
C7	KY5000000022578	1/4 - 1/2 Mile NE
8	KY5000000022295	1/4 - 1/2 Mile East
B9	KY5000000022419	1/4 - 1/2 Mile ENE
10	KY500000022596	1/2 - 1 Mile NE
11	KY5000000022383	1/2 - 1 Mile East
12	KY500000022710	1/2 - 1 Mile North
13	KY5000000022666	1/2 - 1 Mile NNW
14	KY5000000022639	1/2 - 1 Mile NW
15	KY5000000022434	1/2 - 1 Mile ENE
16	KY500000022564	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

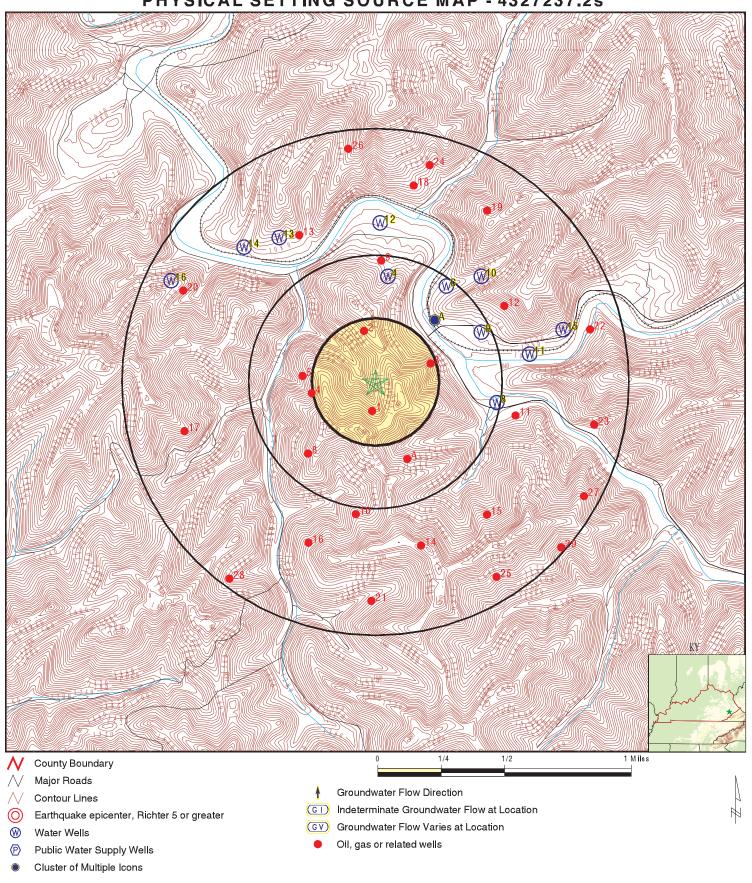
MAP ID	WELL ID	LOCATION FROM TP
1	KYOG11000118694	0 - 1/8 Mile South
2	KYOG11000111732	1/8 - 1/4 Mile NNW
3	KYOG11000107465	1/8 - 1/4 Mile ENE
4	KYOG11000012163	1/4 - 1/2 Mile West
5	KYOG11000030241	1/4 - 1/2 Mile West
A6	KYOG11000107464	1/4 - 1/2 Mile SSE
A7	KYOG11000107726	1/4 - 1/2 Mile SSE
8	KYOG11000112371	1/4 - 1/2 Mile SW
9	KYOG11000105483	1/4 - 1/2 Mile North
10	KYOG11000111912	1/2 - 1 Mile South
11	KYOG11000108808	1/2 - 1 Mile ESE
12	KYOG11000105805	1/2 - 1 Mile ENE
13	KYOG11000107862	1/2 - 1 Mile NNW
14	KYOG11000112598	1/2 - 1 Mile SSE
15	KYOG11000107461	1/2 - 1 Mile SE
16	KYOG11000060848	1/2 - 1 Mile SSW
17	KYOG11000030236	1/2 - 1 Mile WSW

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
18	KYOG11000115198	1/2 - 1 Mile North
19	KYOG11000030242	1/2 - 1 Mile NNE
20	KYOG11000110520	1/2 - 1 Mile WNW
21	KYOG11000117930	1/2 - 1 Mile South
22	KYOG11000109164	1/2 - 1 Mile ENE
23	KYOG11000111733	1/2 - 1 Mile East
24	KYOG11000113539	1/2 - 1 Mile NNE
25	KYOG11000107140	1/2 - 1 Mile SSE
26	KYOG11000107861	1/2 - 1 Mile North
27	KYOG11000108810	1/2 - 1 Mile ESE
28	KYOG11000022472	1/2 - 1 Mile SW
29	KYOG11000107143	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 4327237.2s



SITE NAME: Roxana ADDRESS: 8218 Kentucky 160

Hallie KY 41821 37.106 / 82.9544 LAT/LONG:

CLIENT: Cardno TEC CONTACT: Erika Fuery Cardno TEC INQUIRY #: 4327237.2s

DATE: June 16, 2015 5:47 pm

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Map ID Direction Distance

Elevation Database EDR ID Number

A1 NE

FED USGS USGS40000379988

1/4 - 1/2 Mile Lower

> Org. Identifier: **USGS-KY**

USGS Kentucky Water Science Center Formal name:

Monloc Identifier: USGS-370634082570101

Monloc name: I28C0003 Well Monloc type:

Monloc desc: Not Reported

05100201 Drainagearea value: Not Reported Huc code: Not Reported Contrib drainagearea: Not Reported Drainagearea Units: 37.1095401 Contrib drainagearea units: Not Reported Latitude: Longitude: -82.9501616 Sourcemap scale: 24000 Horiz Acc measure: Horiz Acc measure units: seconds

Horiz Collection method: Interpolated from map

NAD83 1050 Horiz coord refsys: Vert measure val: 20 Vert measure units: feet Vertacc measure val:

Vert accmeasure units:

Vertcollection method: Interpolated from topographic map

NGVD29 US Vert coord refsys: Countrycode:

Aquifername: Not Reported Formation type: **Breathitt Formation** Aquifer type: Not Reported

Construction date: 19540901 Welldepth: 43

Welldepth units: ft Wellholedepth: Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

A2 **KY WELLS** KY5000000022462

1/4 - 1/2 Mile Lower

> 316495 Location i: 37.10954 North lati: West longi: -82.95016

Akgwa numb: Not Reported Site type: Water Well Primary us: 30-DEC-99 Unknown Constructi:

KY5000000022462 Site id:

NE **KY WELLS**

1/4 - 1/2 Mile Lower

> 73314 Location i: 37.10954 North lati: West longi: -82.95016

Akgwa numb: Not Reported Site type: Water Well Primary us: Domestic Constructi: 30-DEC-99

KY5000000022463 Site id:

KY5000000022463

Map ID Direction Distance

Elevation Database **EDR ID Number**

KY WELLS KY5000000022588 North

1/4 - 1/2 Mile Lower

> Location i: 44408 North lati: 37.11204

-82.9535 West longi: 00028726 Water Well Akgwa numb: Site type: Primary us: Domestic Constructi: 06-APR-92

Site id: KY5000000022588

1/4 - 1/2 Mile

KY WELLS KY5000000022426

Lower

Location i: 36407 North lati: 37.10899 West longi: -82.94739

Akgwa numb: 00012966 Site type: Water Well Primary us: 17-OCT-88 Domestic Constructi:

Site id: KY5000000022426

ΝĒ

KY5000000022558 1/4 - 1/2 Mile

Lower

Location i: 233309 North lati: 37.11121 West longi: -82.94933

Water Well Akgwa numb: 00043670 Site type: Primary us: 28-SEP-95 Domestic Constructi:

Site id: KY5000000022558

C7 NE **KY WELLS** KY5000000022578

1/4 - 1/2 Mile

Lower

32129 Location i: North lati: 37.11176 -82.94933

West longi: Akgwa numb: 00003867 Site type: Water Well Constructi: 01-JUN-87 Primary us: Domestic

KY5000000022578 Site id:

KY WELLS KY5000000022295 **East**

1/4 - 1/2 Mile Lower

TC4327237.2s Page A-15

KY WELLS

Location i: 233287 North lati: 37.10482 West longi: -82.94572

Akgwa numb: 00033250 Site type: Water Well Primary us: 02-SEP-93 Industrial Constructi:

Site id: KY5000000022295

B9 ENE **KY WELLS** KY5000000022419

1/4 - 1/2 Mile Lower

Location i: 34233 North lati: 37.10871

West longi: Akgwa numb: 00009194 Site type: Water Well Primary us: Constructi: 03-MAR-88 Domestic

Site id: KY5000000022419

-82.94627

ΝE 1/2 - 1 Mile

KY WELLS KY5000000022596

Lower

33402 Location i: North lati: 37.11204 West longi: -82.94683

Akgwa numb: 00009934 Water Well Site type: Primary us: Domestic Constructi: 17-DEC-87

Site id: KY5000000022596

East

1/2 - 1 Mile Lower

Location i: 60813 North lati: 37.10759 West longi: -82.94338

Not Reported Akgwa numb: Water Well Site type: Primary us: Domestic 30-DEC-99 Constructi:

Site id: KY5000000022383

KY WELLS KY5000000022710

North 1/2 - 1 Mile

Lower

40281 Location i: North lati: 37.1151 West longi: -82.95406

Water Well Akgwa numb: 00017812 Site type: Primary us: Constructi: 29-JUN-90 Public

Site id: KY5000000022710 **KY WELLS**

KY5000000022383

Map ID Direction Distance

Elevation Database EDR ID Number

1/2 - 1 Mile Lower

 Location i:
 233335

 North lati:
 37.11426

 West longi:
 -82.96127

Akgwa numb:00043658Site type:Water WellPrimary us:DomesticConstructi:11-OCT-95

Site id: KY5000000022666

14

NW 1/2 - 1 Mile

Lower

Location i: 233328 North lati: 37.11371

West longi: -82.96378 Akgwa numb: 00041301

Akgwa numb:00041301Site type:Water WellPrimary us:DomesticConstructi:18-JUL-95

Site id: KY5000000022639

15 ENE KY WELLS KY500000022434

1/2 - 1 Mile Lower

> Location i: 34124 North lati: 37.10899

 West longi:
 -82.94099

 Akgwa numb:
 00010733
 Site type:
 Water Well

 Primary us:
 Domestic
 Constructi:
 27-APR-88

Site id: KY500000022434

16 WNW KY WELLS KY500000022564 1/2 - 1 Mile

1/2 - 1 Mile Lower

 Location i:
 60842

 North lati:
 37.11179

 West longi:
 -82.96899

Akgwa numb: Not Reported Site type:

Primary us: Domestic Constructi: 30-DEC-99

Site id: KY5000000022564

Water Well

KY WELLS

KY5000000022639

Map ID Direction Distance

Direction
Distance
Database EDR ID Number

South OIL_GAS KYOG11000118694 0 - 1/8 Mile

Kgs recno: Api: 16133015500000 137064 Letter: Н Number: 79 1579 Section: 18 Fns: S 1352 Few: Ns: Ew: Ε Surf elev: 1532 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: EQUITABLE PRODUCTION COMPANY ET AL

Org oper: CLEAN GAS, INC

4074 Org wellno: 301 Td: Tdfm: 3410HIO 000 Deepst pay: lof ip: Not Reported Org wclass: DEV Org result: Cmpl date: 24-MAR-09 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 104837 Bore type: V

 Rec lat27:
 37.104336

 Rec lng27:
 -82.954635

 Rec lat83:
 37.104337

 Rec lat83:
 30.54636

Rec lng83: -82.954636 Site id: KYOG11000118694

2 NNW OIL_GAS KYOG11000111732 1/8 - 1/4 Mile

Kgs recno: Api: 16133011110000 129852 Letter: Н Number: 79 Fns: 2856 Section: 18 Ns: Ν Few: 1556 Ew: Ε Surf elev: 1436 **ROXANA** Usgs quad: County: **LETCHER**

Org farm: ISON, RICHARD ESTATE

Org oper: CLEAN GAS, INC

Org wellno: Td: 3999 150 Tdfm: 3410HIO 3410HIO Deepst pay: lof ip: Not Reported Org wclass: DEV Org result: GAS Cmpl date: 03-FEB-06 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Kgs permit: 98511

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/9/R00129852/R00129852.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.108823 Rec lng27: -82.955336

Rec lat83: 37.108918

Rec lng83: -82.95522 Site id: KYOG11000111732

3 OIL_GAS KYOG11000107465 1/8 - 1/4 Mile

125087 16133007530000 Api: Kgs recno: Letter: Н Number: 79 Section: 18 Fns: 2533 Ns: S Few: 169 Ε Surf elev: 1319 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: MEADE, RONDAL & SHARON

Org oper: CLEAN GAS, INC

Org wellno: SB-31 Td: 3936 Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: DEV lof ip: Not Reported Org result: Cmpl date: 27-MAY-04 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core:Not ReportedCuttings:0Elog:BCPlotsymbol:GAS

Kgs permit: 94306

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125087/R00125087.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.106957

 Rec lng27:
 -82.950579

 Rec lat83:
 37.107053

Rec Ing83: -82.950463 Site id: KYOG11000107465

4
West OIL_GAS KYOG11000012163
1/4 - 1/2 Mile

Api: 16133008230000 Kgs recno: 12407 Letter: Н Number: 79 18 1950 Section: Fns: S 2250 Ns: Few: W Ew: Surf elev: 1315 Usgs quad: **ROXANA LETCHER** County:

Org farm: HOGG, GEORGE

Org oper: KENTUCKY WEST VIRGINIA GAS CO

Org wellno: 0 7178 000 Tdfm: 000 Deepst pay: lof ip: Not Reported Org wclass: UNC Cmpl date: 30-DEC-99 Org result: TRM 30-DEC-99 Not Reported Plug date: Plug afdvt:

Core: Not Reported Cuttings: 0
Elog: Not Reported Plotsymbol: TRM

Kgs permit: 26332

Images: http://kgs.uky.edu/oilgasimages/0/0/0/1/2/R00012407/R00012407.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.105355 Rec lng27: -82.958952

Rec lat83: 37.105356

Rec Ing83: -82.958951 Site id: KYOG11000012163

5
West OIL_GAS KYOG11000030241
1/4 - 1/2 Mile

16133001110000 31561 Api: Kgs recno: Letter: Н Number: 79 Section: 18 Fns: 2275 Ns: S Few: 2025 W Surf elev: 1332 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: HOGG, GEORGE

Org oper: KENTUCKY WEST VIRGINIA GAS CO

Org wellno: 3860 7192 Td: Tdfm: 3410HIO Deepst pay: 3410HIO 133 MCFGPD Org wclass: lof ip: DEV Org result: GAS Cmpl date: 22-JUN-73 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core:Not ReportedCuttings:0Elog:Not ReportedPlotsymbol:GAS

Kgs permit: 26638

Images: http://kgs.uky.edu/oilgasimages/0/0/0/3/1/R00031561/R00031561.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.106248

 Rec lng27:
 -82.959723

 Rec lat83:
 37.106343

Rec lng83: -82.959607 Site id: KYOG11000030241

A6 SSE OIL_GAS KYOG11000107464 1/4 - 1/2 Mile

Api: 16133007520000 Kgs recno: 125086 Letter: Н Number: 79 579 Section: 18 Fns: S 601 Ns: Few: Ew: Ε Surf elev: 1530 Usgs quad: **ROXANA LETCHER** County:

Org farm: MEADE, RONDAL & SHARON

Org oper: CLEAN GAS, INC

Org wellno: SB-32 Td: 0 000 Tdfm: 000 Deepst pay: lof ip: Not Reported Org wclass: UNC Cmpl date: 30-DEC-99 Org result: TRM 30-DEC-99 Not Reported Plug date: Plug afdvt:

Core: Not Reported Cuttings: 0
Elog: Not Reported Plotsymbol: TRM

Kgs permit: 94305

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125086/R00125086.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.10159 Rec lng27: -82.952061

Rec lat83: 37.101685

Rec lng83: -82.951945 Site id: KYOG11000107464

A/ SSE OIL_GAS KYOG11000107726 1/4 - 1/2 Mile

County:

LETCHER

16133007740000 125686 Kgs recno: Api: Letter: Н Number: 79 Section: 18 Fns: 517 Ns: S Few: 706 Ε Surf elev: 1531 Ew:

Org farm: MEADE, RONDAL & SHARON

ROXANA

Org oper: CLEAN GAS, INC

Org wellno: SB-32 Td: 4130 Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: lof ip: Not Reported DEV Org result: Cmpl date: 29-APR-04 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 94550

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125686/R00125686.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Usgs quad:

 Rec lat27:
 37.10142

 Rec lng27:
 -82.952421

 Rec lat83:
 37.101515

Rec Ing83: -82.952305 Site id: KYOG11000107726

8 SW OIL_GAS KYOG11000112371 1/4 - 1/2 Mile

Api: 16133011360000 Kgs recno: 130597 Letter: Н Number: 79 659 18 Section: Fns: S 2140 Ns: Few: W Ew: Surf elev: 1510 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: EQUITABLE PRODUCTION COMPANY

Org oper: CLEAN GAS, INC

Org wellno: Td: 4057 154 3410HIO 3410HIO Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 01-JUN-06 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 99070

Images: http://kgs.uky.edu/oilgasimages/0/0/1/3/0/R00130597/R00130597.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V Rec lat27: 37.

Rec lat27: 37.10181 Rec lng27: -82.959328

Rec lat83: 37.101905

Rec Ing83: -82.959212 Site id: KYOG11000112371

9 North OIL_GAS KYOG11000105483 1/4 - 1/2 Mile

16133006170000 123040 Api: Kgs recno: Letter: Н Number: 79 Section: 18 Fns: 1391 Ns: Ν Few: 1197 Ε Surf elev: 1158 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: KRCC/EPC

Org oper: CLEAN GAS, INC

Org wellno: Td: 3704 **SB-18** Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: lof ip: Not Reported DEV Org result: Cmpl date: 03-JUL-01 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: DIL Plotsymbol: GAS

Kgs permit: 92487

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/3/R00123040/R00123040.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.112846

 Rec lng27:
 -82.954104

 Rec lat83:
 37.112942

Rec Ing83: -82.953988 Site id: KYOG11000105483

10 South OIL_GAS KYOG11000111912 1/2 - 1 Mile

130035 Api: 16133011150000 Kgs recno: Letter: Н Number: 79 23 604 Section: Fns: Ν Few: 1727 Ns: Ew: Ε Surf elev: 1497 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: STAHL, THOMAS

Org oper: CLEAN GAS, INC

Org wellno: Td: 4072 153 3410HIO 341HURNL Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 23-FEB-06 Org result: GAS 30-DEC-99 Plug date: Not Reported Plug afdvt: Core: Not Reported Cuttings: 2399 ВС Plotsymbol: GAS Elog:

Kgs permit: 98693

Images: http://kgs.uky.edu/oilgasimages/0/0/1/3/0/R00130035/R00130035.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.098341 Rec lng27: -82.955921

Rec lat83: 37.098436 Rec lng83: -82.955805

Rec Ing83: -82.955805 Site id: KYOG11000111912

11 ESE OIL_GAS KYOG11000108808 1/2 - 1 Mile

16133009490000 126926 Api: Kgs recno: Letter: Н Number: 79 Section: 19 Fns: 1450 Ns: S Few: 1602 W Surf elev: 1101 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: HOGG, IRA JR (HEIRS)

Org oper: CLEAN GAS, INC

Org wellno: SB-54 Td: 3669 Tdfm: Deepst pay: 3410HIO 340BBSI Org wclass: lof ip: Not Reported DEV Org result: GAS Cmpl date: 04-JUN-04 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core:Not ReportedCuttings:0Elog:BCPlotsymbol:GAS

Kgs permit: 95610

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/6/R00126926/R00126926.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.103982

 Rec lng27:
 -82.944507

 Rec lat83:
 37.104078

Rec Ing83: -82.944391 Site id: KYOG11000108808

12
ENE OIL_GAS KYOG11000105805
1/2 - 1 Mile

16133006270000 123361 Api: Kgs recno: Letter: Н Number: 79 2334 19 Section: Fns: 1369 Ns: Ν Few: Ew: W Surf elev: 1268 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: HOGG, RUTH

Org oper: CLEAN GAS, INC Org wellno: SB-17 Td: 3794 3410HIO 3410HIO Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 12-OCT-01 Org result: GAS 30-DEC-99 Not Reported Plug date: Plug afdvt: Core: Not Reported Cuttings: 1798

Kgs permit: 92586

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/3/R00123361/R00123361.djvu?djvuopts&thumbnails=yes&menu=yes&

Plotsymbol:

zoom=page

DIL

Bore type: V

Elog:

Rec lat27: 37.110256 Rec lng27: -82.945306 GAS

Rec lat83: 37.110352 Rec lng83: -82.94519

Rec Ing83: -82.94519 Site id: KYOG11000105805

NNW OIL_GAS KYOG11000107862 1/2 - 1 Mile

16133007800000 125822 Api: Kgs recno: Letter: Н Number: 79 Section: 18 Fns: 861 Ns: Ν Few: 1957 W Surf elev: 1090 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: HAMPTON, JAMES

Org oper: CLEAN GAS, INC

Org wellno: SB-38 Td: 3603 Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: DEV lof ip: 350 MCFGPD Org result: GAS Cmpl date: 19-MAY-03 Plug date: 30-DEC-99 Plug afdvt: Not Reported Core: Not Reported Cuttings: 2013 Elog: BC Plotsymbol: GAS

Kgs permit: 94598

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125822/R00125822.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.114302

 Rec lng27:
 -82.959958

 Rec lat83:
 37.114398

Rec Ing83: -82.959842 Site id: KYOG11000107862

14
SSE OIL_GAS KYOG11000112598
1/2 - 1 Mile

Api: 16133011500000 Kgs recno: 130824 Letter: Н Number: 79 23 1260 Section: Fns: Ν 368 Ns: Few: 1846 Ew: Ε Surf elev: Usgs quad: **ROXANA** County: **LETCHER**

Org farm: GENTRY, LEE

Org oper: CLEAN GAS, INC

Org wellno: Td: 4403 155 3410HIO 341HURNL Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 08-JUN-06 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 99287

Images: http://kgs.uky.edu/oilgasimages/0/0/1/3/0/R00130824/R00130824.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.096539 Rec lng27: -82.951261

Rec lat83: 37.096634

Rec Ing83: -82.951145 Site id: KYOG11000112598

15 SE OIL_GAS KYOG11000107461 1/2 - 1 Mile

County:

LETCHER

125083 16133009300000 Api: Kgs recno: Letter: Н Number: 79 Section: 22 Fns: 614 Ns: Ν Few: 1008 W Surf elev: 1540 Ew:

Org farm: MEADE, RONDAL & SHARON

ROXANA

Org oper: CLEAN GAS, INC

Org wellno: SB-33 Td: 4118 Tdfm: 3410LNG 3410HIO Deepst pay: Org wclass: lof ip: 0 MCFGPD DEV Org result: Cmpl date: 06-MAY-04 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 94272

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125083/R00125083.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Usgs quad:

 Rec lat27:
 37.098314

 Rec lng27:
 -82.946545

 Rec lat83:
 37.098409

Rec Ing83: -82.946429 Site id: KYOG11000107461

10 SSW OIL_GAS KYOG11000060848 1/2 - 1 Mile

Api: 16133002140000 Kgs recno: 63892 Letter: Н Number: 79 23 1200 Section: Fns: 2150 Ns: Ν Few: W Ew: Surf elev: 1489 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: GENTRY, DOUGLAS

Org oper: MAXON EXP & DEV CO

Org wellno: Td: 4000 3410HIO 340BBSI Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 06-FEB-86 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: FDC Plotsymbol: GAS

Kgs permit: 70676

Images: http://kgs.uky.edu/oilgasimages/0/0/0/6/3/R00063892/R00063892.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.096704 Rec lng27: -82.959296

Rec lat83: 37.096799
Rec lng83: -82.95918

Rec Ing83: -82.95918 Site id: KYOG11000060848

1/ WSW OIL_GAS KYOG11000030236 1/2 - 1 Mile

31556 16133001090000 Api: Kgs recno: Letter: Н Number: 79 Section: 17 Fns: 1160 Ns: S Few: 400 Е Surf elev: 1463 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: ISON, ISAAC

Org oper: KENTUCKY WEST VIRGINIA GAS CO

Org wellno: 4017 7167 Td: Tdfm: 355LCKP Deepst pay: 3410HIO Org wclass: DEV lof ip: 146 MCFGPD Org result: GAS Cmpl date: 20-OCT-72 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: FDC Plotsymbol: GAS

Kgs permit: 25952

Images: http://kgs.uky.edu/oilgasimages/0/0/0/3/1/R00031556/R00031556.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.103185

 Rec lng27:
 -82.968038

 Rec lat83:
 37.103186

Rec lng83: -82.968038 Site id: KYOG11000030236

18
North
OIL_GAS KYOG11000115198
1/2 - 1 Mile

133432 Api: 16133013190000 Kgs recno: Letter: Н Number: 79 209 Section: 13 Fns: S 486 Ns: Few: 1198 Ew: Ε Surf elev: Usgs quad: **ROXANA** County: **LETCHER**

Org farm: EQUITABLE PRODUCTION COMPANY

Org oper: CLEAN GAS, INC

Org wellno: 144 Td: 3758 3410HIO 3410HIO Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 21-JUN-07 Org result: GAS Plug date: 30-DEC-99 Not Reported Plug afdvt:

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

 Kgs permit:
 101494

 Bore type:
 V

 Rec lat27:
 37.11724

 Rec lng27:
 -82.951666

Rec lat83: 37.117241 Rec lng83: -82.951667

Rec Ing83: -82.951667 Site id: KYOG11000115198

19
NNE
OIL_GAS KYOG11000030242
1/2 - 1 Mile

16133000770000 31562 Api: Kgs recno: Letter: Н Number: 79 Section: 19 Fns: 350 Ns: Ν Few: 1010 W Surf elev: 1469 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: LEWIS, JOHN J

Org oper: KENTUCKY WEST VIRGINIA GAS CO

Org wellno: 3866 7101 Td: Tdfm: 3410HIO Deepst pay: 3410HIO lof ip: 61 MCFGPD Org wclass: DEV Org result: GAS Cmpl date: 17-DEC-70 Plug date: 30-DEC-99 Plug afdvt: Not Reported Core: Not Reported Cuttings: 11883 Elog: Not Reported Plotsymbol: GAS

Kgs permit: 23786

Images: http://kgs.uky.edu/oilgasimages/0/0/0/3/1/R00031562/R00031562.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.115705

 Rec lng27:
 -82.946537

 Rec lat83:
 37.115801

Rec Ing83: -82.946421 Site id: KYOG11000030242

20 WNW OIL_GAS KYOG11000110520 1/2 - 1 Mile

Api: 16133010440000 Kgs recno: 128638 Letter: Η Number: 79 17 2014 Section: Fns: Ν 461 Ns: Few: Ew: Ε Surf elev: 1216 Usgs quad: **ROXANA LETCHER** County:

Org farm: BEGLEY PROPERTIES, LLC

Org oper: CLEAN GAS, INC

Org wellno: Td: 3694 114 3410HIO 3410HIO Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 07-JUL-05 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 97294

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/8/R00128638/R00128638.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.111135 Rec lng27: -82.968247

Rec lat83: 37.11123 Rec lng83: -82.968131

Rec lng83: -82.968131 Site id: KYOG11000110520

21 South OIL_GAS KYOG11000117930 1/2 - 1 Mile

16133014860000 136277 Api: Kgs recno: Letter: Н Number: 79 Section: 23 Fns: 2412 Ns: Ν Few: 1402 Ε Surf elev: 1383 Ew: County: **ROXANA LETCHER** Usgs quad:

Org farm: EQUITABLE PRODUCTION COMPANY, LLC

Org oper: CLEAN GAS, INC

Org wellno: Td: 3956 300 Tdfm: 3410HIO Deepst pay: 000 Org wclass: DEV lof ip: Not Reported Org result: GAS Cmpl date: 11-SEP-08 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 104085 Bore type: V

1/2 - 1 Mile

 Rec lat27:
 37.093375

 Rec lng27:
 -82.954806

 Rec lat83:
 37.09347

Rec Ing83: -82.95469 Site id: KYOG11000117930

22 ENE OIL_GAS KYOG11000109164

16133009710000 Kgs recno: 127282 Api: Letter: Н Number: 79 Section: 19 Fns: 2823 Ns: Ν Few: 1706 Ε Surf elev: 1049 Ew: County: **LETCHER** Usgs quad: **ROXANA**

Org farm: KENTUCKY RIVER PROPERTIES LLC

Org oper: CLEAN GAS, INC

Org wellno: SB-57 Td: 3608 Tdfm: 3410HIO Deepst pay: 3410HIO lof ip: Not Reported Org wclass: DEV Cmpl date: 22-DEC-05 Org result: GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 95957

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/7/R00127282/R00127282.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.108913 Rec lng27: -82.939183

Rec lat83: 37.109009 Rec lng83: -82.939067

Rec Ing83: -82.939067 Site id: KYOG11000109164

23
East OIL_GAS KYOG11000111733
1/2 - 1 Mile

129853 16133011120000 Api: Kgs recno: Number: Letter: Н 79 Section: 19 Fns: 1259 Ns: S Few: 1620 1110 Е Surf elev: Ew: **ROXANA** County: **LETCHER** Usgs quad:

Org farm: HOGG, IRA JR HEIRS

Org oper: CLEAN GAS, INC

Org wellno: Td: 3690 151 Tdfm: 3410HIO Deepst pay: 3410HIO Org wclass: DEV lof ip: Not Reported Org result: GAS Cmpl date: 12-JAN-06 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 98512

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/9/R00129853/R00129853.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.103458

 Rec lng27:
 -82.938888

 Rec lat83:
 37.103554

Rec Ing83: -82.938772 Site id: KYOG11000111733

24
NNE
OIL_GAS
KYOG11000113539
1/2 - 1 Mile

Api: 16133012200000 Kgs recno: 131767 Letter: Н Number: 79 598 Section: 13 Fns: S 187 Ns: Few: Ew: Ε Surf elev: 1226 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: EQUITABLE PRODUCTION COMPANY

Org oper: CLEAN GAS, INC

Org wellno: 144 Td: 0 000 000 Tdfm: Deepst pay: lof ip: Not Reported Org wclass: UNC Cmpl date: 30-DEC-99 Org result: TRM Plug date: 30-DEC-99 Not Reported Plug afdvt:

Core: Not Reported Cuttings: 0
Elog: Not Reported Plotsymbol: TRM

Kgs permit: 100208

Bore type: V

Rec lat27: 37.118309 Rec lng27: -82.950641

Rec lat83: 37.118405

Rec lng83: -82.950525 Site id: KYOG11000113539

25 SSE OIL_GAS KYOG11000107140 1/2 - 1 Mile

124695 16133007270000 Api: Kgs recno: Letter: Н Number: 79 Section: 22 Fns: 1911 Ns: Ν Few: 1206 W Surf elev: 1552 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: THE LEWIS COMPANY

Org oper: KINZER, J W

Org wellno: Td: 4150 1220 Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: DEV lof ip: Not Reported Org result: Cmpl date: 21-MAY-04 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: FDC Plotsymbol: GAS

Kgs permit: 93982

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/4/R00124695/R00124695.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.094751

 Rec lng27:
 -82.945866

 Rec lat83:
 37.094846

Rec Ing83: -82.94575 Site id: KYOG11000107140

26
North OIL_GAS KYOG11000107861
1/2 - 1 Mile

Api: 16133007790000 Kgs recno: 125821 Letter: Н Number: 79 940 13 Section: Fns: S 1882 Ns: Few: Ew: Ε Surf elev: 1437 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: WEINBERG, JED ET AL

Org oper: CLEAN GAS, INC

Org wellno: SB-39 Td: 3936 3410HIO 3410HIO Tdfm: Deepst pay: lof ip: Not Reported Org wclass: DEV Cmpl date: 22-MAY-03 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 94597

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/5/R00125821/R00125821.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.119248 Rec lng27: -82.956454

Rec lat83: 37.119344

Rec lng83: -82.956338 Site id: KYOG11000107861

27 ESE OIL_GAS KYOG11000108810 1/2 - 1 Mile

16133009480000 126928 Api: Kgs recno: Letter: Н Number: 79 Section: 22 Fns: 230 Ns: Ν Few: 1833 Ε Surf elev: 1549 Ew: **ROXANA LETCHER** Usgs quad: County:

Org farm: HOGG, IRA JR (HEIRS)

Org oper: CLEAN GAS, INC

Org wellno: Td: 4151 SB-52 Tdfm: 3410HIO 3410HIO Deepst pay: Org wclass: lof ip: Not Reported DEV Org result: Cmpl date: 13-MAY-04 GAS Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0
Elog: BC Plotsymbol: GAS

Kgs permit: 95572

Images: http://kgs.uky.edu/oilgasimages/0/0/1/2/6/R00126928/R00126928.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

 Rec lat27:
 37.099368

 Rec lng27:
 -82.939617

 Rec lat83:
 37.099464

Rec lng83: -82.939501 Site id: KYOG11000108810

28 SW OIL_GAS KYOG11000022472 1/2 - 1 Mile

Api: 16133001740000 Kgs recno: 23460 Letter: Н Number: 79 23 1950 Section: Fns: 500 Ns: Ν Few: Ew: W Surf elev: 1351 Usgs quad: **ROXANA** County: **LETCHER**

Org farm: WRIGHT, JESSIE

Org oper: KEPCO, INC

Org wellno: KL498 Td: 3930 344CORN 3410HIO Tdfm: Deepst pay: lof ip: 239 MCFGPD Org wclass: DEV Cmpl date: 06-APR-83 Org result: GAS 30-DEC-99 Plug date: Plug afdvt: Not Reported Core: Not Reported Cuttings: 14614 **FDC** Plotsymbol: GAS Elog:

Kgs permit: 53671

Images: http://kgs.uky.edu/oilgasimages/0/0/0/2/3/R00023460/R00023460.djvu?djvuopts&thumbnails=yes&menu=yes&

zoom=page

Bore type: V

Rec lat27: 37.094644 Rec lng27: -82.964952

Rec lat83: 37.094739

Rec Ing83: -82.964836 Site id: KYOG11000022472

OIL_GAS KYOG11000107143

29 SE 1/2 - 1 Mile

16133007300000 124698 Kgs recno: Api: Letter: Number: 79 Н Section: 22 Fns: 1295 Ns: Ν Few: 2308 Е 1474 Ew: Surf elev: LETCHER Usgs quad: **ROXANA** County:

Org farm: THE LEWIS COMPANY

Org oper: KINZER, J W

Org wellno: 1219 Td: 4097 Tdfm: 3410HIO 3410HI0 Deepst pay: lof ip: 420 MCFGPD Org wclass: DEV Org result: GAS Cmpl date: 25-MAY-04 Plug date: 30-DEC-99 Plug afdvt: Not Reported

Core: Not Reported Cuttings: 0 DIL Plotsymbol: GAS Elog:

Kgs permit: 93981

http://kgs.uky.edu/oilgasimages/0/0/1/2/4/R00124698/R00124698.djvu?djvuopts&thumbnails=yes&menu=yes& Images:

zoom=page

Bore type:

37.096443 Rec lat27: Rec Ing27: -82.941245 Rec lat83: 37.096538

KYOG11000107143 Rec Ing83: -82.941129 Site id:

AREA RADON INFORMATION

Federal EPA Radon Zone for LETCHER County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LETCHER COUNTY, KY

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.400 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet

Telephone: 502-564-5174

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey

Telephone: 859-257-5500

Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations

Source: Kentucky Geological Survey

Telephone: 859-257-5500

Oil and gas well locations in the state of Kentucky

RADON

State Database: KY Radon

Source: Department of Public Health

Telephone: 502-564-4856 Radon Test Results

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix D: Topographic Maps

Roxana

8218 Kentucky 160 Hallie, KY 41821

Inquiry Number: 4327237.4

June 16, 2015

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

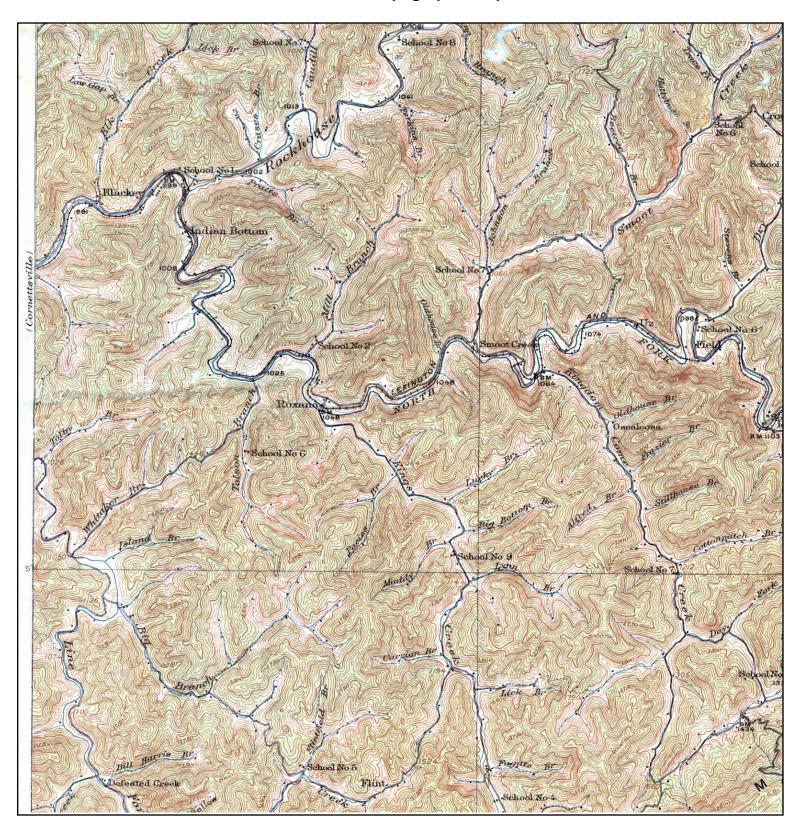
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Historical Topographic Map





TARGET QUAD

NAME: WHITESBURG

MAP YEAR: 1915

SERIES: 15 SCALE: 1:62500 SITE NAME: Roxana

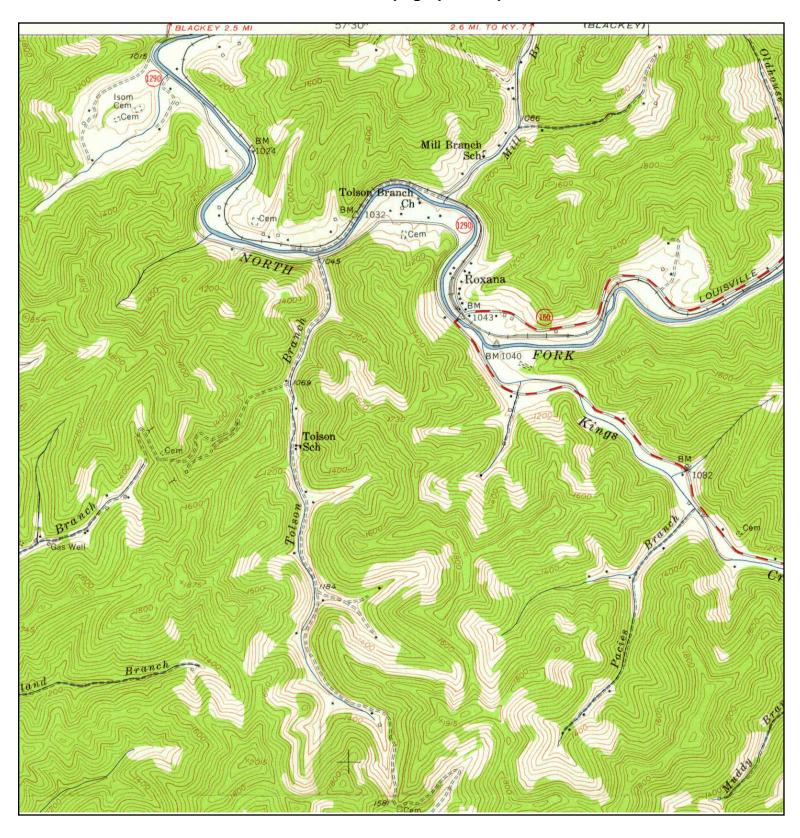
ADDRESS: 8218 Kentucky 160

Hallie, KY 41821

LAT/LONG: 37.106 / -82.9544

CLIENT: Cardno TEC
CONTACT: Erika Fuery
INQUIRY#: 4327237.4
RESEARCH DATE: 06/16/2015

Historical Topographic Map





TARGET QUAD NAME: ROXANA

MAP YEAR: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Roxana

ADDRESS: 8218 Kentucky 160

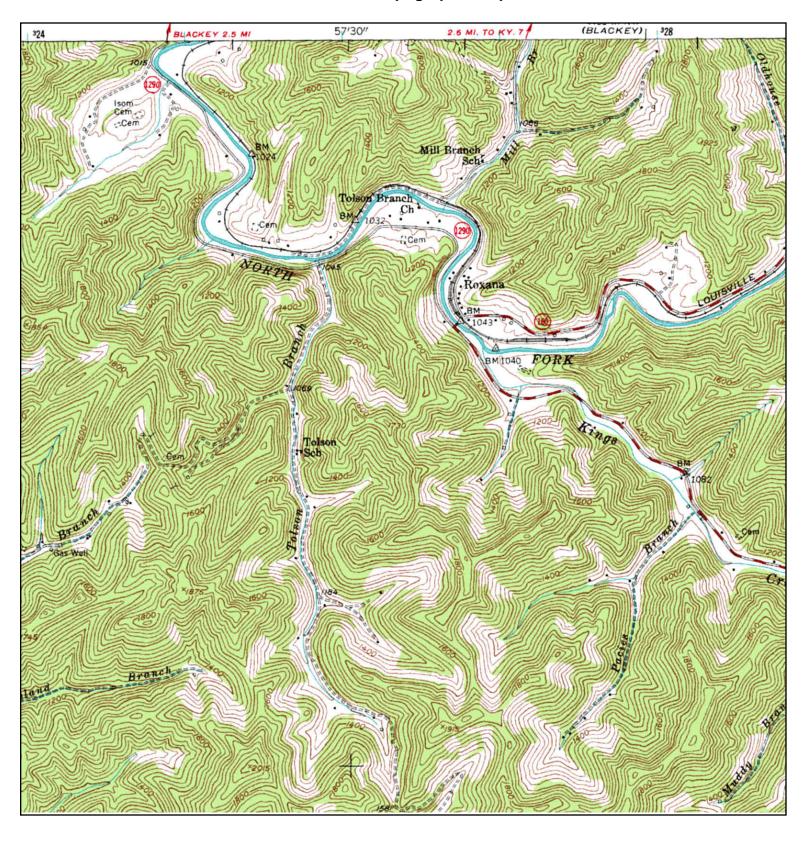
Hallie, KY 41821

LAT/LONG: 37.106 / -82.9544

CLIENT: Cardno TEC CONTACT: Erika Fuery INQUIRY#: 4327237.4

RESEARCH DATE: 06/16/2015

Historical Topographic Map





TARGET QUAD
NAME: ROXANA
MAP YEAR: 1976

PHOTOINSPECTED FROM: 1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Roxana

ADDRESS: 8218 Kentucky 160

Hallie, KY 41821

LAT/LONG: 37.106 / -82.9544

CLIENT: Cardno TEC
CONTACT: Erika Fuery
INQUIRY#: 4327237.4
RESEARCH DATE: 06/16/2015

Appendix E: Aerial Photographs

Roxana

8218 Kentucky 160 Hallie, KY 41821

Inquiry Number: 4327237.12

June 17, 2015

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography June 17, 2015

Target Property:

8218 Kentucky 160 Hallie, KY 41821

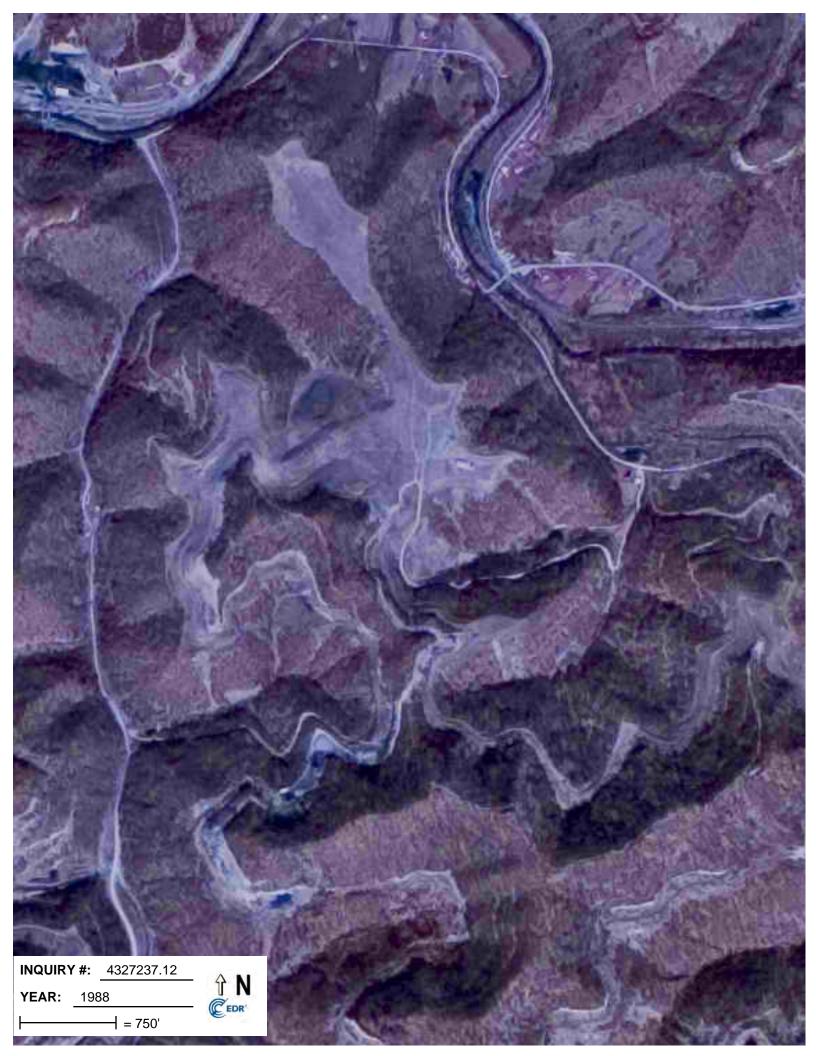
<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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1952	Aerial Photograph. Scale: 1"=500'	Flight Date: April 17, 1952	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Flight Date: April 26, 1983	EDR
1988	Aerial Photograph. Scale: 1"=750'	Flight Date: March 27, 1988	EDR
1988	Aerial Photograph. Scale: 1"=750'	Flight Date: March 27, 1988	EDR
1991	Aerial Photograph. Scale: 1"=750'	Flight Date: March 28, 1991	EDR
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1995	USGS/DOQQ
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP

Year 2010	Scale Aerial Photograph. Scale: 1"=500'	Details Flight Year: 2010	Source USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP







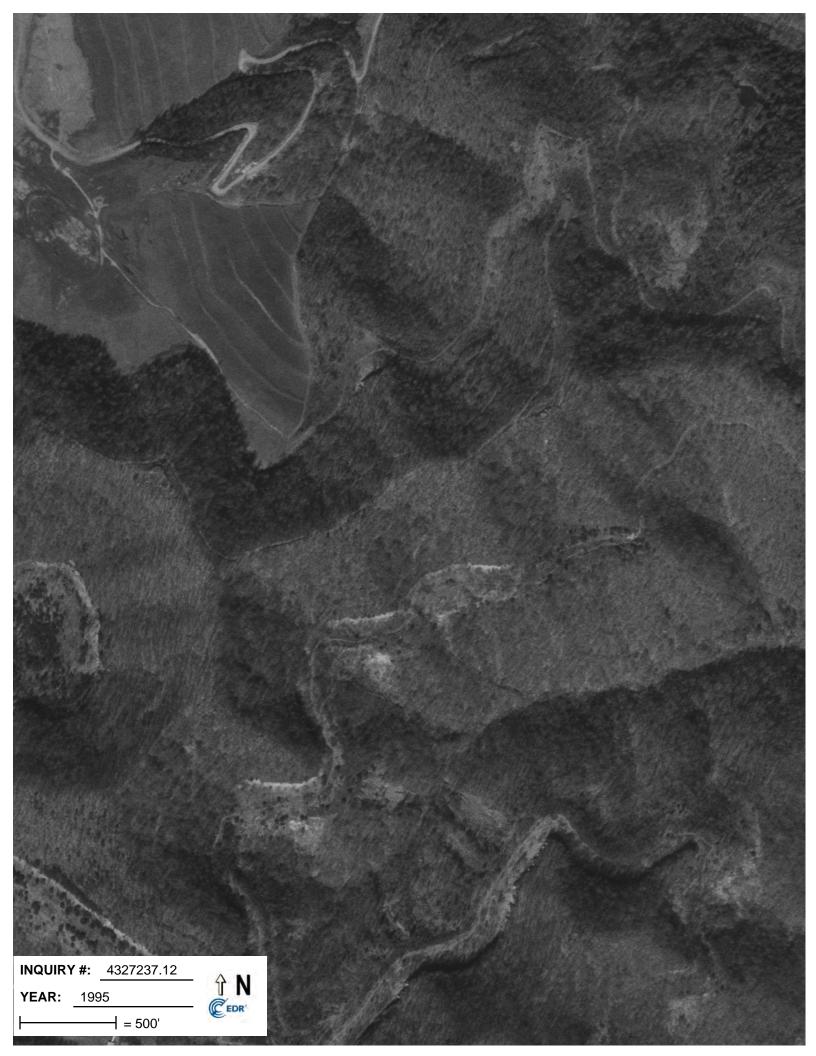






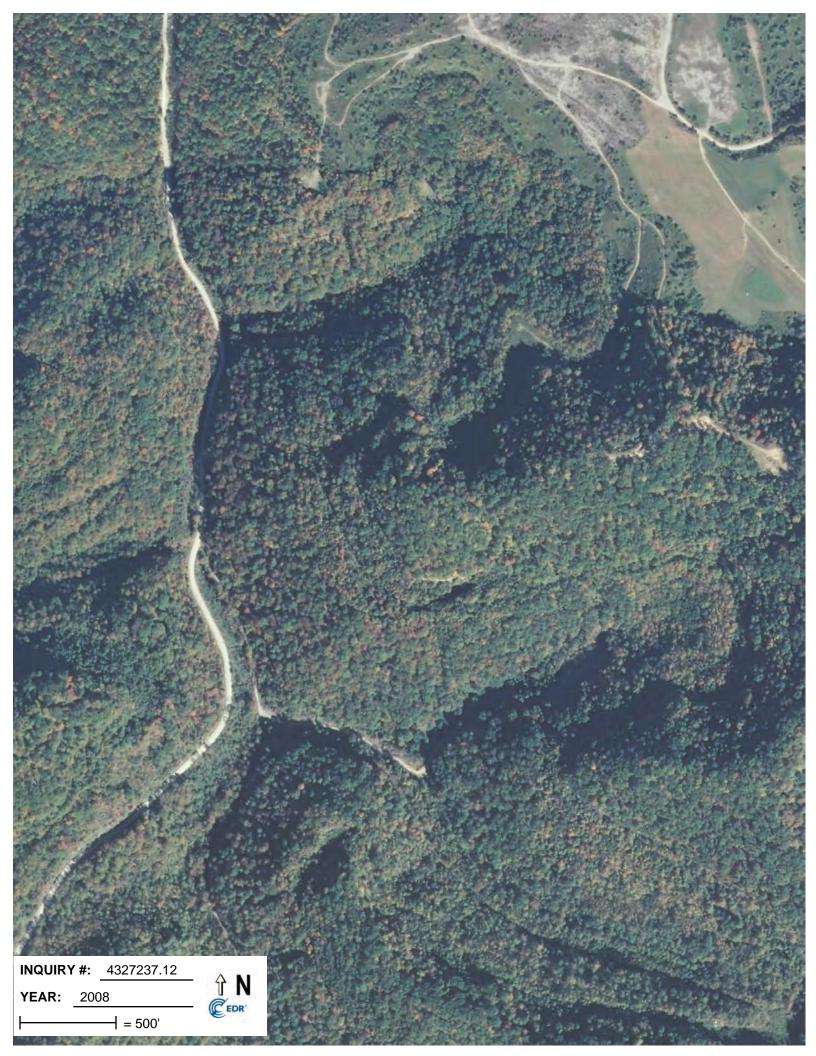








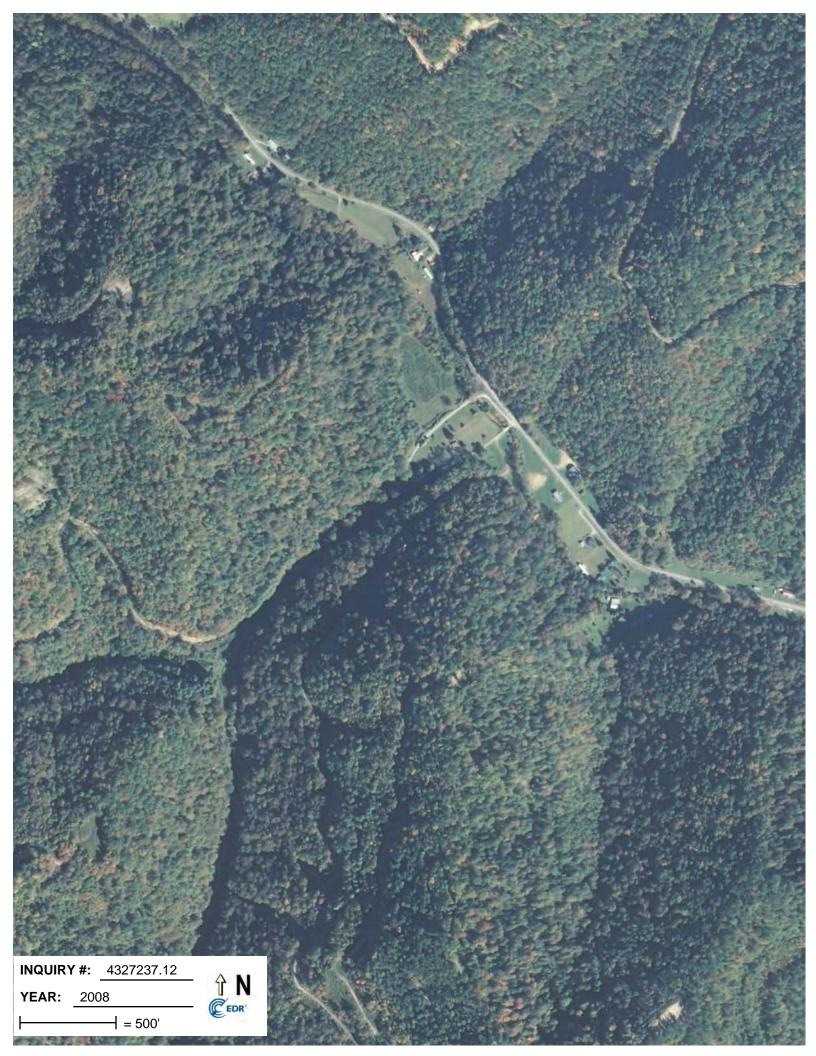




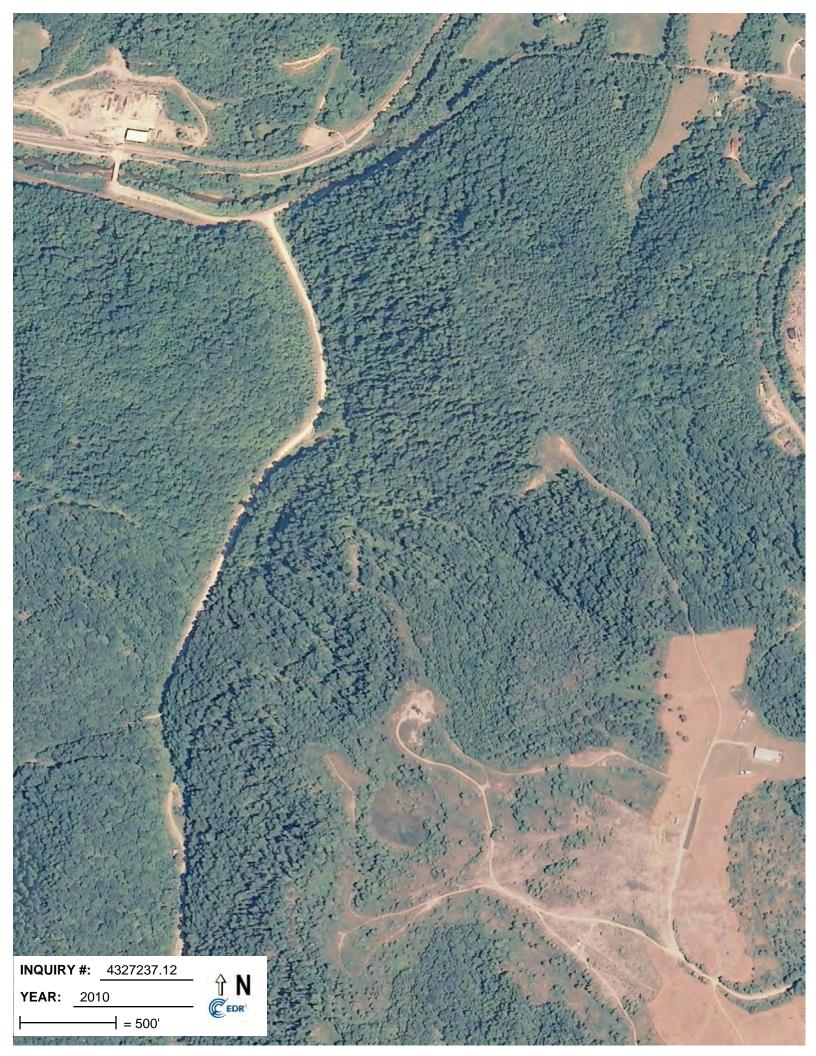




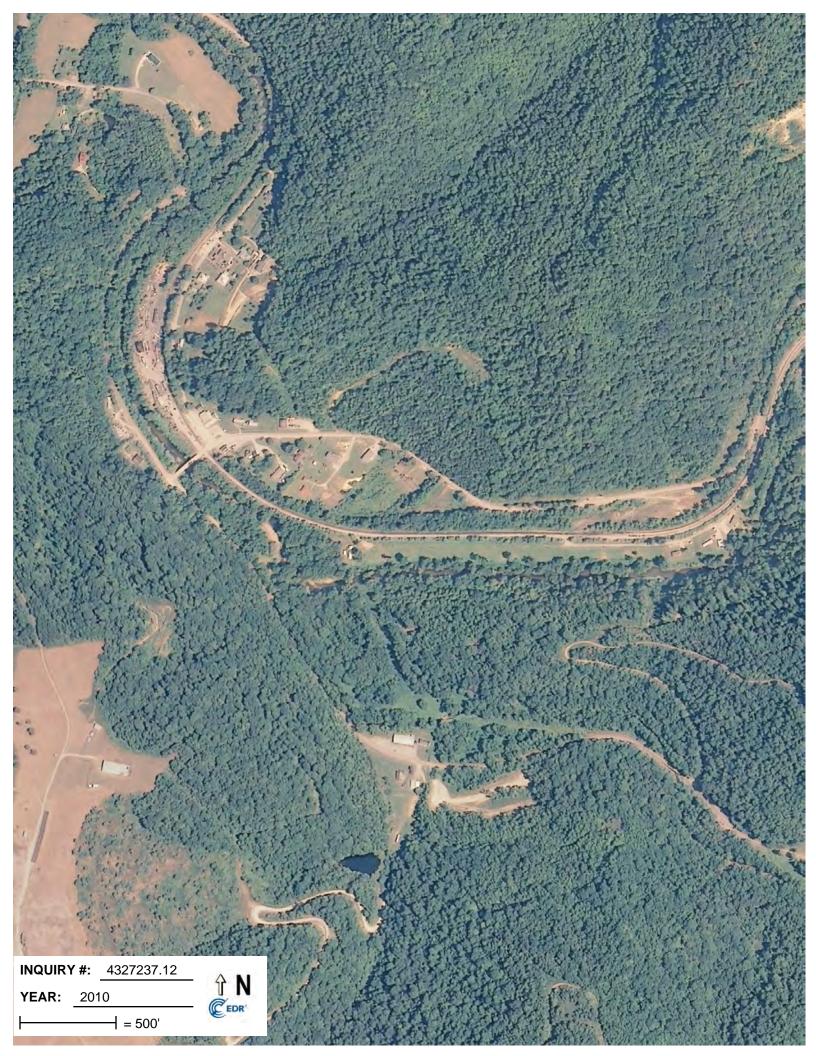


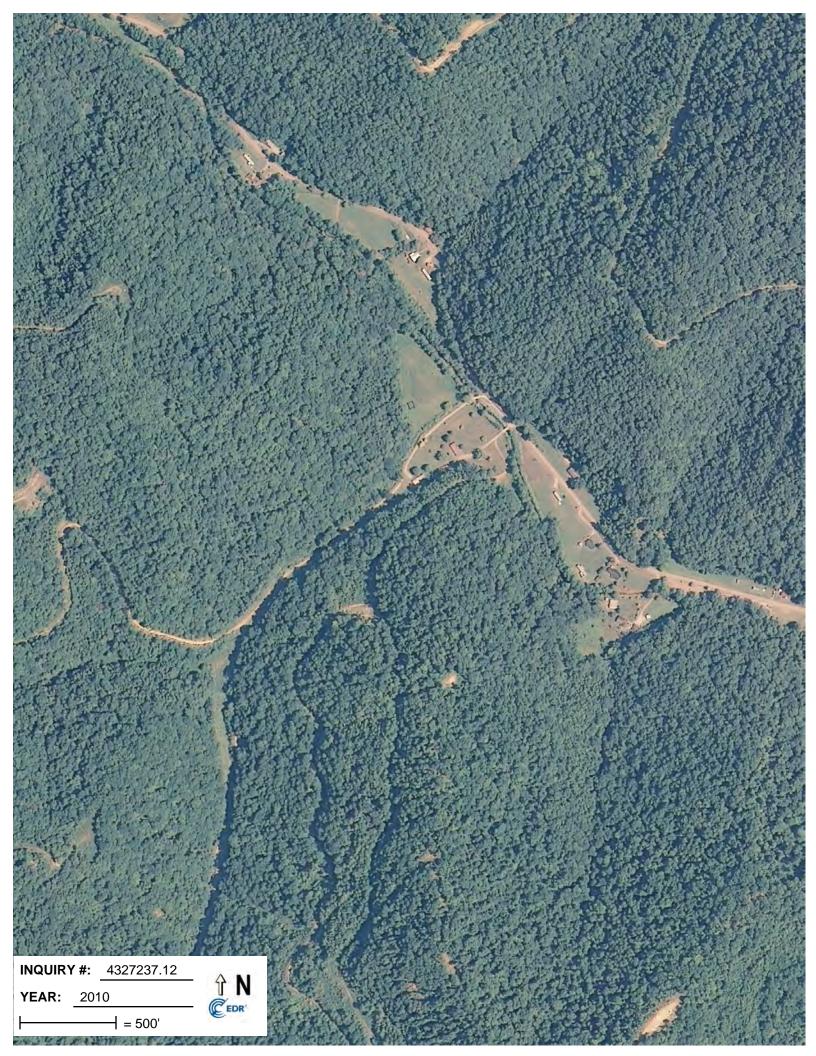




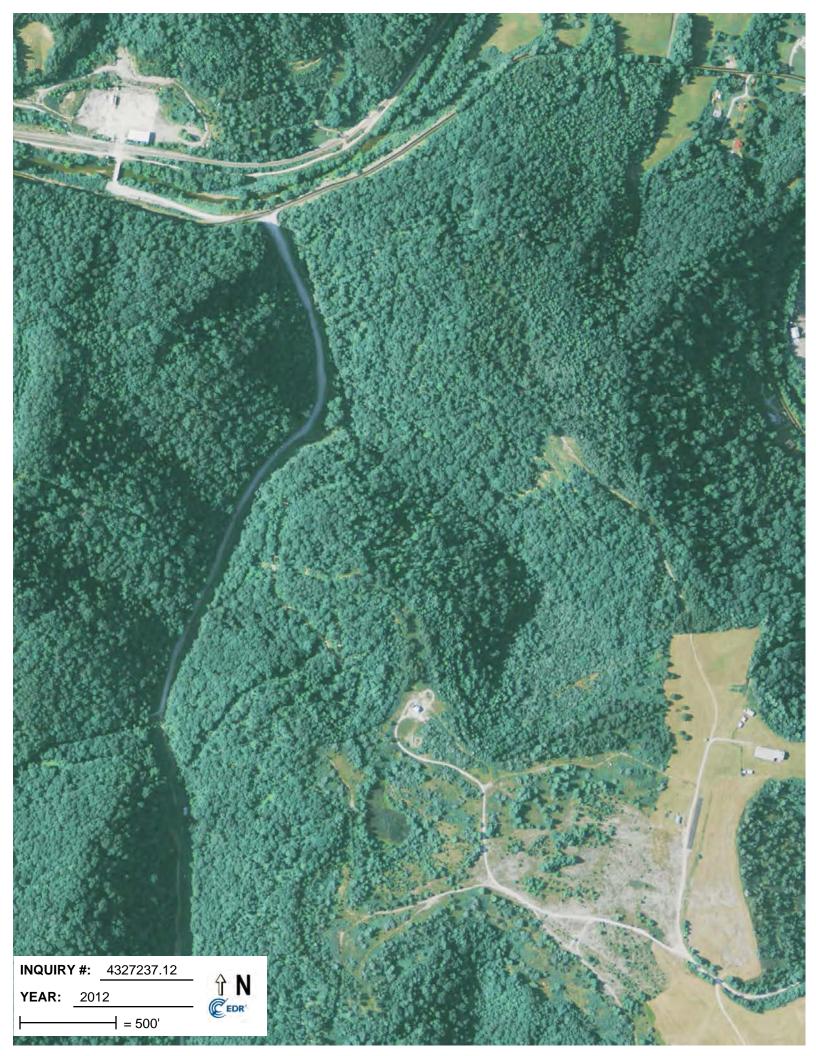




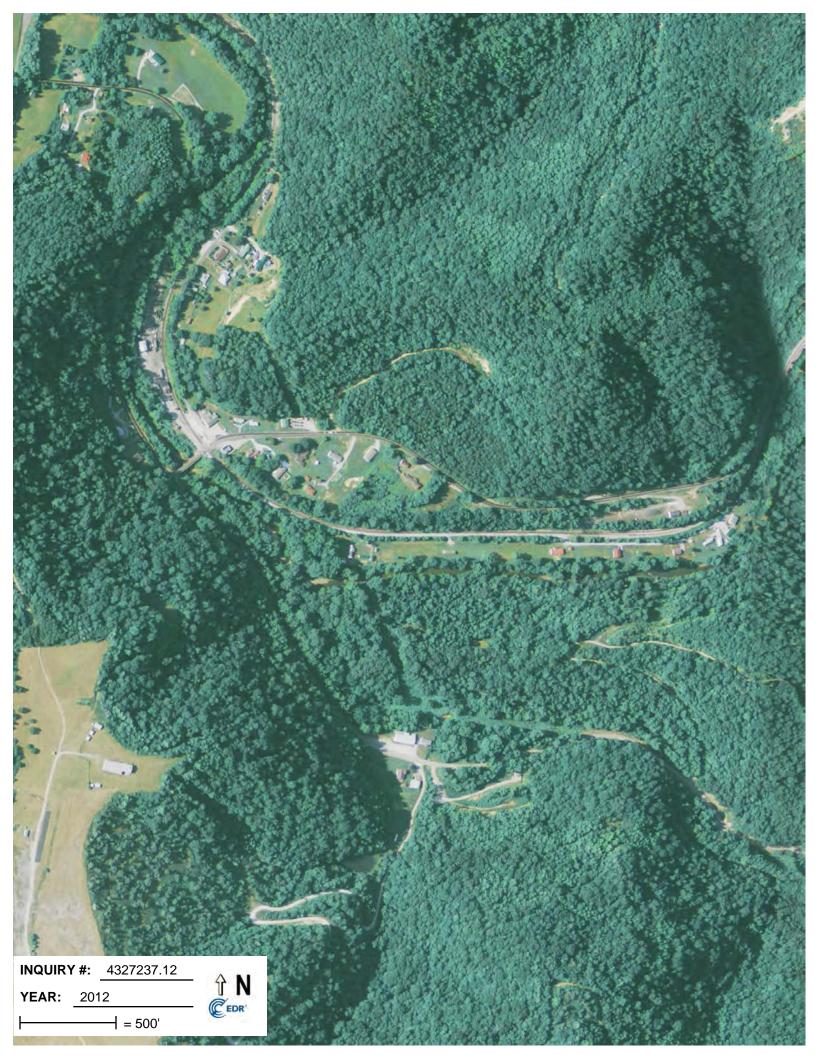














Appendix F: City Directories

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Roxana

8218 Kentucky 160 Hallie, KY 41821

Inquiry Number: 4327237.5

June 16, 2015

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2013	$\overline{\square}$		Cole Information Services
2008			Cole Information Services
2003	\square		Cole Information Services
1999	\square		Cole Information Services
1995	\square		Cole Information Services
1992			Cole Information Services

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FINDINGS

TARGET PROPERTY STREET

8218 Kentucky 160 Hallie, KY 41821

<u>Year</u>	CD Image	<u>Source</u>	
HIGHWAY	160		
2013	pg A2	Cole Information Services	
2008	pg A5	Cole Information Services	
2003	pg A7	Cole Information Services	
1999	pg A9	Cole Information Services	
1995	pg A11	Cole Information Services	
1992	-	Cole Information Services	Target and Adjoining not listed in Source

4327237-5 Page 2

FINDINGS

CROSS STREETS

No Cross Streets Identified

4327237-5 Page 3



Target Street

Cross Street

Source

Cole Information Services

HIGHWAY 160 2013

ENTERPRISE COAL CO 1 3511 MARY HALL 3967 WALLACE WHITAKER 3990 CORINE COLLINS 5612 ANGELINA GENTRY 5959 MARTHA COLLINS 6267 S WHITAKER 6311 ANTHONY AMBUREY 6312 CARLO CORNETT 6367 SHERRY NEICE 6369 CHAD COLLIE 6422 ROXANA TRANSPORT 6830 **RONDALL MEADE** 6841 RONDALL MEADE 7341 **CATHY WILLIAMS** 7470 **DOUGLAS FIELDS** 7471 WILLIS FIELDS 7642 **VERA MITCHELL** 7844 MICHAEL ISON 7926 HALEY DAY 7984 **JEANIE COMBS** 7987 RAYMOND COLEMAN 8018 **GLENN CAUDILL** 8181 **BRANDY HOGG** 8218 PHILLIP RATLIFF 8287 **GEORGE ROARK** 8371 **KELLY HOGG** 8528 LARRY HOGG 8618 OCCUPANT UNKNOWN 8650 RICKEY DAY 8678 **BEVERLY SUMNER ROBIN MITCHELL** 8695 **CLARENCE GIBSON** 8702 CHRIS WHITAKER 8724 **BORA HALCOMB** 8725 OCCUPANT UNKNOWN 8760 LATASHA WEST 8789 LOTTIE ENGLE 8793 **COY HOGG** 8797 JONATHAN DINSMORE 8850 **TOBY MAGGARD** 8881 **KEVIN ISON** ROXANA SPECIALIZED HAULERS INC 8882 MATTHEW ADAMS 8926 WATSON WHITAKER 8948 **NEVILLE EARLY** 8970 **GEORGE LOGAN** 8978 KINGS CREEK SENIOR CITIZENS CENTER 9020 JERRY STURGILL 9066 JIMMY DOTSON

HIGHWAY 160 2013 (Cont'd)

	HIGHWAT I	100	2013	(Cont a)
9096	DEAN ROARK			
9570	JACK STURGILL			
9606	KIMBERLY JOHNSON			
9686	KENDALL BOGGS			
9710	KELLY YOUNCE			
9730	HARRISON BOGGS			
9768	HARRISON BOGGS			
9812	HUGH CAUDILL			
9868	ERIC BOGGS			
10471	JUNIOR STAMPER			
10477				
10484				
10499				
10508				
10527				
10668				
10704				
10737				
10769				
10805				
10833				
11010	BILL MEADE			
	PATS PAWN			
11071	THOMAS ROARK			
11125				
11173				
11193				
11207				
11231	MARK STURGILL			
11342				
11588				
11638				
11653				
11663				
11746				
11768				
11782				
11814				
11868				
11890				
11951	HENRY HERON			
11975				
12023		1		
12060				
12063				
12097				
12121				
12157				
12163				
12219	AUDIE FIELDS			

HIGHWAY 160 2013 (Cont'd)

	HIGHWATI	00 2013	(Cont a)
12435 12515 12586 12624 12659 12786 12816	ISAAC FIELDS CLYDE BLAIR ALMANDER BLAIR GLEN COOPER GLENDORA CORNETT BRIAN CHAPMAN LUTHER MEAD MEADE & SHEPHERD COAL CO INC LUTHER MEADE		

HIGHWAY 160 2008

	111011111111111111111111111111111111111
3850	T BOWLING
3990	CORINE COLLINS
6267	S WHITAKER
6311	ANTHONY AMBUREY
6364	SHERRY NEICE
6369	CHAD COLLIE
6830	RONDALL MEADE
6841	RON MEADE
7341	CATHY WILLIAMS
7444	DOUG FIELDS
7470	DOUGLAS FIELDS
7471	WILLIS FIELDS
7844	MICHAEL ISON
7926	MICHELLE ADAMS
7984	JEANIE COMBS
8000	SHAWN COMBS
8018	CHARLES JOSEPH
8181	BRANDY HOGG
	T MCCOY
8198	CHRISTOPHER HOCKENBERRY
8218	STEVEN RATLIFF
8287	GEORGE ROARK
8528	LARRY HOGG
8562	LDTM INC
	TIRRELLA BENTLEY
8618	RICKEY DAY
8650	PANNY STALLARD
8678	BEVERLY SUMNER
	CORAMAE HALCOMB
0005	DARRELL ALLEN
8695	CLARENCE GIBSON
8702	LARRY NAPIER
8724 8755	FAWN BRUNER
8755 8760	JERRY DINSMORE CORA HALCOMB
8789	LOTTIE ENGLE
8793	COY HOGG
8797	JONATHAN DINSMORE
8847	P SMITH
8850	JESSICA MAGGARD
8881	KEVIN ISON
8882	HIRAM WHITAKER
8948	NEVILLE EARLY
8970	GEORGE LOGAN
8978	KINGS CREEK SENIOR CITIZEN CENTER
9020	JERRY STURGILL
9066	JIMMY DOTSON
9096	ALFORD ROARK
9570	VERTIE STURGILL
9710	PRISCILLA YOUNCE
-	

HIGHWAY 160 2008 (Cont'd)

	` '
9730	HARRISON BOGGS
9768	HARRISON BOGGS
9812	HUGH CAUDILL
9868	ERIC BOGGS
10056	CHARLES DAY
10477	JUNIOR STAMPER
10484	DON WALKER
10499	NEVIL EARLY
10508	FREDDIE SMITH
10527	OWEN DAY
10668	ONEIL DAY
10704	ERIC BROWN
10737	RANDELL FIELDS
10805	PAMELA ROARK
10850	VERNETTA ROARK
10931	PATRICK MEADE
10941	DAYS ENGINE SERVICE
11010	BILL MEADE
	KINGSCREEK VOLUNTEER FIRE DEPT
11071	THOMAS ROARK
11125	LORENE HAMPTON
11173	BARBARA HUFF
11207	NORMA ROARK
11231	MARK STURGILL
11232	CONNIE STURGILL
11588	JOSEPH INGRAM
11638	DANNY INGRAM
11782	RUTH FRAZIER
11814	LUCKY SEXTON
11868	CAROLYN LEWIS
11951	HENRY HERON
12060	THOMAS ROARK
12121	ANDREA CORNETT
12157	KELLY NEACE
12163	THOMAS COLLINS
12219	SHAWN LIND
12435	CLYDE BLAIR
12475	MIKE HOBSON
12515	LARRY DAMRELL
12586	GLEN COOPER
12624	GLENDORA CORNETT
12659	BRIAN CHAPMAN
12816	MEADE & SHEPHERD COAL CO INC
12843	DONALD WALKER

HIGHWAY 160 2003

1601	CHRIS TOLLIVER
2657	CHARLES HOWARD
2808	RAYMOND SMITH
3450	J BANKS
3961	JIMMY PIGMAN
5516	JEFF MULLINS
6830	MEADE RONDALL
	RONDALL MEADE
6841	RON MEADE
7470	JANICE FIELDS
7471	WILLIS FIELDS
7727	LUCKY SEXTON
7984	J COMBS
8000	GLENN CAUDILL
8181	T MCCOY
8198	STEVEN RATLIFF
8218	RONNIE ASHBY
8447	MARGIE HOGG
8528	LAKIE HOGG
8618	RICKEY DAY
8650	PANNY STALLARD
8702	LARRY NAPIER
8789	DIANE HOGG
8793	COY HOGG
8847	KEVIN ISON
8850	JESSICA MAGGARD
8881	KEVIN ISON
8882	HIRAM WHITAKER
8938	GEORGE LOGAN
8948	JAMES BRADLEY
8970	GEORGE LOGAN
8978	KINGS CREEK SENIOR CTZN CTR
9020	PEGGY STURGILL
9096	ALFORD ROARK
9201	GLENNA FIELDS
9570 0710	VERTIE STURGILL PRISCILLA BOGGS
9710 9730	KENDALL BOGGS
9730 9768	HARRISON BOGGS
10056	APRIL MARTIN
10030	JOHN MADDEN
10334	MARGARET STAMPER
10477	JUNIOR STAMPER
10477	DON WALKER
10499	JOSEPH CHILDERS
10508	SHELIA WALKER
10508	OWEN DAY
10805	PAMELA ROARK
10837	DONALD FIELDS
10850	TOMMY ROARK
. 5555	

HIGHWAY 160 2003 (Cont'd)

10861	HIRIAM HOGG
10941	ONEIL DAY
11010	BILL MEADE
	MEADE & SON TRUCKING
	PATS PAWN
11125	LORENE HAMPTON
11193	FRANKLIN ROARK
11207	NORMA ROARK
	LARRY CAUDILL
	THELMA INGRAM
11588	JOSEPH INGRAM
11638	DANNY INGRAM
11782	RUTH FRAZIER
11814	ANGIE SEXTON
11868	CAROLYN LEWIS
11890	HIRAM INGRAM
11951	HENRY HERRAN
12121	ANDREA CORNETT
12157	JERRY FIELDS
12224	ESTELENE SHEPHERD
12435	CLYDE BLAIR
12475	MIKE HOBSON
12515	LARRY DAMRELL
12586	GLEN COOPER
12624	TIFFINEY BENTLEY
12659	RODNEY MEADE
12816	MEADE & SHEPHERD COAL CO
12843	COUNTRY STYLE INC
13420	JOSEPH SMITH

HIGHWAY 160 1999

630	ROGER GILLIAM
672	WILLARD GILLIAM
680	THOMAS BIGGS
1564	EUNICE ADAMS
1601	CHRIS TOLLIVER
3480	JAMES BATES
3752	U S GOVERNMENT POSTAL SERVICE
4014	PREMIUM BAPTIST CHURCH
6827	R & R AUTOMOTIVE & MACHINE
7444	RANDY FIELDS
7470	ROSA FIELDS
7471	WILLIS FIELDS
7844	MICHAEL ISON
7984	J COMBS
8018	LORA STAMPER
8182	P MCCOY
8218	BOBBY SHELL
8371	DON HOGG
8447	LIDA HOGG
8473	M HOGG
8528	LARRY HOGG
8618	ERIC MEADE
	RICKEY DAY
8793	COY HOGG
8881	KEVIN ISON
8882	HIRAM WHITAKER
8978	KINGS CREEK SENIOR CITIZENS CENTER
9020	JERRY STURGILL
9044	STEVE DICKS
9066	JIMMY DOTSON
9096	ALFORD ROARK
9201	MARSHA FIELDS
9570	ASHLAND STURGILL
9606	A STURGILL
10056	APRIL MARTIN
40474	CHARLES DAY
10471	JUNIOR STAMPER
10484	DON WALKER
10527	OWEN DAY
10704	RUSSELL AKERS
10733	ROGER BALL
10805	PAMELA ROARK
10837	D FIELDS
10850	TOMMY ROARK
10899	PATS PARTS & PAWN SHOP
10941	ONEIL DAY
11010	BILL MEADE
11153	MILDRED ISON
11173 11193	BARBARA ROARK F ROARK
11133	I NOANN

HIGHWAY 160 1999 (Cont'd)

11232	DAVID FIELDS
11342	THELMA INGRAM
11588	JOSEPH INGRAM
11638	DANNY INGRAM
11653	BERTHA WILLIAMS
11746	TERRY MEADE
11768	MATT COMBS
11782	RUTH FRAZIER
11814	ANGIE SEXTON
11868	CAROLYN LEWIS
12224	ALBERT ELDRIDGE
12435	CLYDE BLAIR
12475	MIKE HOBSON
12515	LARRY DAMRELL
12624	SHAWN MEADE
12659	RODNEY MEADE
12816	MEADE AND SHEPHERD COAL COMPANY INCORPORATED
	MEADE AND SHEPHERD COAL COMPANY INCORPORATED OFFICE

Target Street Cross Street Source

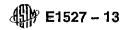
✓ - Cole Information Services

HIGHWAY 160 1995

0	PREMIUM BAPTIST MISSION

Appendix G: User Questionnaire

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X3. USER QUESTIONNAIRE

Rondall Meade

INTRODUCTION

In order to qualify for one of the Landowner Liability Protections (LLPs)¹⁸⁷ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), ¹⁸⁸ the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

perly under federal, tribal, state or local law?
Note 1—In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.
(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)).
Did a search of recorded land title records (or judicial records where appropriate, seeNote 1 above) Identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filled or recorded against the property under federal, tribal, state or local law?
(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the <i>property</i> or nearby properties? For example, are you involved in the same line of business as the current or former <i>occupants</i> of the <i>property</i> or an <i>adjoining property</i> so that you would have specialized knowledge of the chemicals and processes used by
this type of business? Property owner o former employee of mining Cor
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?
(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known orreasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, (a.) Do you know the past uses of the property? (b.) Do you know of specific chemicals that are present or once were present at the property? (c.) Do you know of spills or other chemical releases that have taken place at the property? (d.) Do you know of any environmental cleanups that have taken place at the property?
(6.) The degree of obviousness of the presence or likely presence of contamination at the <i>property</i> , and the ability to detect the contamination by appropriate investigation (40 CFB 312.31). Based on your knowledge and experience related to the <i>property</i> are there any <i>obvious</i> indicators that point to the presence or likely presence of releases at the <i>property?</i>

(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25).

¹⁸⁷ Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide) issued on March 6, 2003.
188 P.L. 107-118.

X3.1 In addition, certain information should be collected, if available, and provided to the *environmental professional* conducting the *Phase I Environmental Site Assessment*. This information is intended to assist the *environmental professional*, but is not necessarily required to qualify for one of the *LLPs*. The information includes:

⁽a) the reason why the Phase I is being performed,

⁽b) the type of property and type of property transaction, for example, sale, purchase, exchange, etc.,

⁽c) the complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful),

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Appendix H: Qualifications

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ERIKA FUERY ENVIRONMENTAL SCIENTIST TEC INC. - MIDDLETOWN, CT

EDUCATION

1995/B.A./Field Biology/Environmental Studies/University of Northern Colorado 2004/M.S./Environmental Science/University of New Haven

CERTIFICATIONS

Professional Certification in Geographical Information Systems, University of New Haven, 2001 OSHA HAZWOPER Certification
Niton XRF Certification
Trimble GPS Training
ISO 14001:2004 E.M.S. Lead Auditor

YEARS EXPERIENCE: 10

PROFESSIONAL EXPERIENCE

Ms. Fuery is an Environmental Scientist who specializes in dredged material management, Phase I/Phase II Environmental Site Assessments, remedial investigations and documentation, and Geographical Information Systems analysis. She has conducted remedial investigations in Massachusetts, Delaware, Virginia and Connecticut and provided management alternatives analyses for contaminated material for projects in Maine, Massachusetts, Rhode Island, New Jersey, Pennsylvania, Florida, New York and Connecticut. She has worked closely with state and Federal agencies and has successfully assisted clients in making management decisions regarding contaminated materials by providing comprehensive cost analyses for available disposal methods that have been approved by the EPA. Ms. Fuery has contributed to numerous NEPA documents and has assisted in preparation of Federal and state environmental permit applications.

Completed Detailed Phase I Environmental Site on Several Properties in the Northeast U.S.. The primary objective of the Phase I ESA is to render an opinion as to whether surficial or historical evidence indicates the presence of recognized environmental conditions which would result in a release of hazardous materials into the environment, as defined by the American Society for Testing and Materials Standard Practice E1527-00 for Phase I ESAs. The studies included; site reconnaissance; review of the property history; and, review of selected local, state and federal regulatory records.

Completed Numerous Phase II Subsurface Investigations to Determine Absence or Presence of Contamination at Sites in Pennsylvania, Connecticut and Massachusetts. Phase II investigations involved the sampling of soil and groundwater in areas deemed likely to have been impacted by hazardous materials based on current and historical land use practices. The results of the Phase II investigations determined whether remediation was necessary at the sites.

Contributed to Work Plan Development, Site Assessment, Long Term Monitoring and Remediation of a Contaminated Park in East Hartford, CT. The project was located in a municipal park near a residential neighborhood and a school. The site was formerly a gravel pit that was filled in 1960s and 1970s. As a result of the filling activities, elevated levels of regulated compounds were present in the soil and groundwater at several locations within the property boundaries. The remediation of the site included excavation and disposal of impacted soils, backfilling the excavations with clean material to render the site acceptable for residential activities, and long-term, quarterly groundwater monitoring in accordance with Connecticut Department of Environmental Protection requirements.

Dredge Material Management and Environmental Assessment of Pier 3 Replacement, Naval Weapons Station Earle, Colts Neck, NJ - Team analyst, conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA. The analysis involved detailed evaluations of disposal and dewatering options, locations and costs for several thousand cubic yards of contaminated dredged material as well as several thousand cubic yards of creosote-treated timber piles. Data provided in this analysis was also incorporated into the Environmental Assessment for this project.

Development of Confined Aquatic Disposal Site and Environmental Assessment for Pier 6 Replacement, Naval Submarine Base, New London, CT - Team analyst, conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA for several thousand cubic yards of contaminated sediment. The analysis involved detailed evaluations of treatment, disposal and dewatering options and well as a siting study and cost analysis. The analysis led to the conclusion that Confined Aquatic Disposal (CAD) would provide the most cost-effective dredge material disposal option for the contaminated sediment. The successful CAD development was the first of this type of disposal method executed in the Thames River. Data provided in this analysis was also incorporated into the EA for this project.

Feasibility Study and Environmental Assessment for Maintenance Dredging of Naval Inactive Ship Reserve Basin Philadelphia, PA - Team Analyst, contributed to the development of a Feasibility Study and an EA for the proposed dredging, treatment, and disposal of approximately 300,000 cubic yards of contaminated sediment from the NISMO Reserve Basin. Project challenges included heavy sediment contamination, presence of unexploded ordnance, and lack of available land area for dewatering and treatment of the contaminated sediments.

Master Plan for Port of Vlora, Albania - Team Analyst, contributed to the development of a feasibility study for the development of an energy park in Vlora, Albania. The study analyzed the potential to develop a new, dedicated cargo port and adjacent energy park to the north of the city of Vlora. Project challenges included heavy mercury contamination at the proposed New Port site, lack of suitable waste stream controls, poorly maintained infrastructure, and a weak economy.

Environmental Assessment for the Transfer of the Melville Marina Property at Naval Station Newport in Newport, RI – Team Analyst. Contributed to the development of an Environmental Assessment for the transfer of a former fueling depot property from the Navy to the state of Rhode Island. The waterfront property was identified as a historic district and had a long history of heavy industrial use. The site is being managed under the base IR program and remedial actions are currently ongoing at the site.

Planning for Maintenance Dredging of Hague Basin at United States Merchant Marine Academy, Kings Point, NY - Team Analyst and Health and Safety Officer. Conducted a Dredged Material Disposal Alternatives Analysis as required under NEPA. The analysis involved detailed evaluations of disposal and dewatering options, locations and costs for several thousand cubic yards of contaminated dredged material. Participated in Sampling Plan development and results reporting and oversaw sampling activities to ensure compliance with the Sampling Plan and the Health and Safety Plan.